# U.S. Navy

PATROL LEADER'S
HANDBOOK



#### TABLE OF CONTENTS

NAVAL SPECIAL WARFARE FORCES- OVERVIEW

## CHAPTER 1 MISSION PLANNING PROCESS

1.0 INTRODUCTION

11 THE MISSION PLANNING CYCLE

1.2 THE MISSION PLANNING PROCESS
1.2.1 Receive the Mission Directive

1.2 | Receive the Mission Directive 1.2.2 | Initiate a Security Plan

1 2.3 Analyze the Mission

1 2 4 Plan the Use of Available Time 1 2 5 Submit an Initial EEI Request

125 Submit an Initial EEI Request 126 Formulate an Initial Plan

1 2.7 Give Mission Concept

1 2 8 Revise Plan, Based Dn Mission Concept 1 2 9 Phase Plan/Diagram the Mission

1 2 10 Update EEI Request 1 2 11 Submit Support Requirements

1.2.12 Issue Warning Order

1.2.13 Conduct Preliminary Gear/Personnel
Inspections and Rehearsals
1.2.14 Undate the Plan as Necessary

1 2.15 Patrol Leader's Drder 1 2.16 Briefback

1.2.17 Final Inspection, Rehearsals, and Brief 1.2.18 Conduct Mission

1.2.18 Conduct Mission 1.2.19 Debrief 1.2.20 Submit Post-Op Report

1.3 THE PHASE DIAGRAMMING SYSTEM

#### 2 N OV /

15	MISSION PHASES	- 6
16	PHASE DIAGRAMMING	7
161		7
162	Continue the Analysis	8
163	Prepare Detailed Lists	8
17	PLANNING FOR CONTINGENCIES	12
171	Contingency Checklist	12
CHA	PTER 2	
	ESSENTIAL ELEMENTS OF INFORMAT	FION
2.0	INTRODUCTION	14
2 1	TARGET	14
211	Enemy Environment	15
2.12	Enemy Order of Battle	15
2.13		15
2.14		15
22	TARGET DEPENDENT EEI	15
221	Imagery and Graphies	15
2.2.2	Textual Data and Support Materials	15
CHAI	PTER 3 TARGET ANAL	YSIS
3.0	INTRODUCTION	16
3 1	TARGET SELECTION	16
3.11	Criticality	16
312	Accessibility	16
313	Recuperability	17
314	Vulnerability	17
3   5	Effect on Populace	17
316	Recognizability	17
32	TARGET SYSTEMS	17
3 3	MAJOR TARGET SYSTEMS	18
331	Railway Systems	18
3 3 2	Highway Systems	18
iv	U.S. NAVY	SFAI

1.4 ORGANIZATION OF THE PHASE DIAGRAM

INDL	E OF CONTENTS	
	Waterway Systems	18
	Airway Systems	18
	Communication Systems	19
	Power Systems	19
	Water Supply Systems	20
3 3 8	Fuel Supply Systems	20
СНА	PTER 4 MISSIO	N CONCEPT
40	INTRODUCTION	21
4.1	MISSION CONCEPT (FORMAT)	21
42	RULES OF ENGAGEMENT (ROE)	
	CONSIDERATIONS	22
СНА	PTER 5	
	WARNING/PATROL LEADE	R'S ORDERS
5.0	INTRODUCTION	24
5.1	THE WARNING ORDER	24
5 2	WARNING ORDER (FORMAT)	24
5 3		IGNMENTS 26
5 4		26
5.5		27
5 5.1		27
	Bad PLOs	27
56	PRE-PLO CHECKLIST	28
57		28
571		28
572		29
5.8	PLO FORMAT	30
581		30
	Mission	30
	Execution	33
	Admin and Logistics	35
5.85	Command and Signals	36

PATROL LEADER'S HANDBOOK

42

43

43

#### CHAPTER 6 BRIEFBACK

61	BRIEFBACK (FORMAT)	4
611	Situation/Mission	4
612	Intelligence	4
613	General Overview	4
	1	

6.14 Insertion Method 615 Routes 6.1.6 Actions at the Objective 6.1.7 Extraction Method 6 1 8 Rendezvous/Evasion and Escape Procedures 43

619 Communications 43 6 1 10 Medical 44 6 1 11 Closing Statements 44

## BRIFFBACK PRESENTATION 44

CHAPTER 7	PC	ST	EXE	RCISE/C	PER.	ATION
REPORTS	AND	IN	TELLI	GENCI	DEB	RIEFS

7.0 INTRODUCTION 47

7.1 POST-EXCHANGE/OPERATION (FORMAT) 42 72 INTELLIGENCE DEBRIEF GUIDE 48 49

#### 7.3 DEBRIEF GUIDE (FORMAT)

APPENDICES

APPENDIX A NSW INTELLIGENCE

A 1 TARGET INDEPENDENT FEL. ENVIRONMENT 56

A 1 1 Obstructions/Constructions A 1.2 Order of Battle A 1 3 SERE

A 1.4 Miscellaneous Information

56

59

70

73

TABLE	OF CONTENTS		
A 2	TARGET DEPENDENT EEL	72	
A 21	Imagery and Graphics	72	
A 2 2	Textual Data/Support Materials	73	
A 3	TARGET ANALYSIS CHECKLIST	76	
A 3 1	Administrative Data	76	
A 3 2	General	76	
A 3 3	Specific	79	
A 3 4	Conclusions	80	
APPE	NDIX B VESSEL CHARACTERISTIC CAPABI		
Вl	SMALL CRAFT OPERATIONS	82	
	General	82	
	Mission Planning Considerations	82	
	Coordination	82	
B14	Execution	83	
B 2	COMBAT RUBBER RAIDING CRAFT		
	(CRRC)/INFLATABLES	84	
В3	SPECIAL BOAT CHARACTERISTICS	86	
B 4	FLEET BOAT CHARACTERISTICS	88	
B 5	SHIPS CAPABLE OF TRANSPORTING		
	THE SEAFOX	90	
B 6	NAVAL GUNFIRE SUPPORT SHIPS	92	
APPI	APPENDIX C AIRCRAFT CHARACTERISTICS		
C.1	FIXED WING AIRCRAFT	95	
C 2	ROTARY WING AIRCRAFT	97	
APPI	APPENDIX D WEAPONS AND DEMOLITIONS		
<b>D</b> 1	U S SMALL ARMS	100	
D 2		102	
D 3	DEMOLITION CAPABILITIES AND		
	FORMULAS	103	
PATE	OL LEADER'S HANDBOOK	vii	

114

## APPENDIX E E 1 E 2

COMMUNICATIONS/ELECTRONICS
CAPABILITIES
NSW/SHIPBOARD COMMUNICATIONS
INTEROPERABILITY

	INTEROPERABILITY	1
E 2 I	NSW/Shipboard SATCOM Interoperability	1
E 3	NSW/E2C INTEROPERABILITY	- 1
F 4	C3 VAN CAPABILITIES	- 1

#### APPENDIX F BIBLIOGRAPHY AND GLOSSARY

71	BIBLIOGRAPHY	122
F 1 1	Amphibious Operations	122
712	Environmental Areas of Operations	122
F 1 3	Cartography	123
714	Demolitions	123
715	Diving	123
716	Land Warfare	124
717	Photography	124
1.8	Soviet/Eastern Bloc Forces	124
719	Submarine Operations	125
F 1 10	Targeting	125

#### AN OVERVIEW

## US NAVY SPECIAL WARFARE FORCES

#### 1. INTRODUCTION

The US Navy Special Warfare Command (NAVSPECWAR, COM) is the Navy's proposent agence for Special Operations Forces (SOF) and in designated a Major Command (MACOM) on equal level with the US Army Special Operations Command (USASOC) and Air Force Special Operations Command (USASOC) and Air Force Special Operations Command (NAVSPECWARCOM as subordinate to the US Special Operations for the Navy Special Operations Command (USASOC).

NAVSPECWARCOM is tasked with manifere related special operations in support of Navy and Marine forces as well as the other services. These missions include special mobile operations, uneonventional warfare (UW), beach and coastal reconnaissanno counterinsurgency (COIN), special tactical intelligence collection, coastal and river interdiction, and foreign internal defense (FID). i a advise, train, assist and/or control friendly forces in the conduct of naval special warfare operations. These missions (neltide such specialized tasks as special reconnaissance (SR), direct action (DA), combat sourch and rescue (CSAR), recovery, vessel boarding, search and seizure (VBSS), and beach reconnaissance and obstacle elearance in support of amphibious operations. These missions principally focus on coastal and inshore areas, harbor and ports, but also include operations in inland waterways at well as missions executed ashere, usually continuous with coastal areas They may, however, be conducted well inland. There are four principal types of units tasked with execution of and/or support of there missions

2.

#### NAVAL SPECIAL WARFARE UNITS

The key, and best known, Navy SOF element is the Sea-Air-Land Forces - SEALs The first SEAL teams were formed in 1962 as the Navy's contribution to America's growing counterinsurgency effort. The former underwater demolition teams (UDT) were absorbed into the Seals in 1983. There are seven company at the SEAL teams (commanded by an O-5). These are commissed of ten special operations platoons. The platoons have two officers (O-3 and O-2) and 14 enlisted men divided into two special operations souads with one officer and seven enlisted, the basic planning element for loading into various watercraft. Platoons are identified by phonetic letters within the team and squads by number. For example, 1/ECHO/SEAL 4 (1st Squad, ECHO Platoon, SEAL Team 4) Two or more platoons may be formed into SEAL detachments to accomplish missions requiring more than one platoon and may operate independently of the SEAL team. The SEAL team also has a headquarters platoon with two officers (O-4 and O-3) and six enlisted men. SEAL Team 6, tasked with a counterterrorism and special missions role, is organized somewhat differently. There are also a few small US Navy Reserve (USNR) (also known as Naval Reserve Force - NRF) SEAL elements that habitually train with active force SEAL teams

SEAL trames undertale a grueling 27-week Bate Understare Teo Dennitions SEAL (BUDIS\* "But") Course at Coronda, C.A. where they become SCUBA qualified They are also fully tramed in reconnaissance, a rurellance, target outputs on, mail sealer and, and direct action missions. SEAL tramees receive traming in combat tramming, sarva Al, desublicions, abotage, annual arms, patrolling, midvidual and small unit tactus; eloto combat, navigarion, fluid and direct sealer of the combat and arms of the combat arms of the sealer arms of the SEAL included various Arms. Spotial Forces courses, Arms Rams and the SEAL included various Arms. Spotial Forces courses, Arms Rams arms of the SEALs included the SEA some Moldon and arms of the SEALs included the SEA some Moldon arms of the SEALs included the SEA some Moldon arms of the SEALs included the SEA some Moldon arms of the SEALs included the SEA some Moldon arms of the SEALs included the SEA some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs included the SEAS some Moldon arms of the SEALs includ

5.56mm M16A1 carbine, 40mm M203 grenade lauucher, 7.62mm M60E3 machine gun, different models of 9mm MP5 submachine guns. 12ga MP5 sholgum, 9mm MP pestol, and various k pes of surper rifles including the 7.62mm M21 and 50-caliber M82A1 and M500 along with a number of more specialized. "evotic" weapons

The two SEAL Dehears Whiche (SDV) teams are responsible for the operation of mail submersibles ("main-subs"). Two it pets are used I the MK VIII carries two SVD creaveme and four SEA of the MK VIII carries two SVD creaveme and four SEA of the SVD creave of two delines and the MK IX carries of the SVD creave of two delines and the mission couparison. The 20 food in SVD creave of two delines and the mission couparison of the SVD cream to accomplished DA mission. MK IX is operated by the SDV team to accomplish DA mission with SEAL teams. The MK IX can also carry and launch a XK 32 standing delines of SEAL the SVD cream to accomplished the SVD cream to accomplish the SVD cream to accomplish the SVD cream to accomplish DA mission with SEAL teams. The MK IX can also carry and launch a XK 32 standing delines the SVD cream to accomplish t

There are six Sturgeon class SDV troop transports (still capable of operating as attack submarines) in service. The conversions were between 1982 and 1991. Two Ethan Allen class submarrnes were modified at autobibious transports between 1983 and 1988. The life expectancy of the USS Som Houston (SSN 609) and USS John Marshall (SSN 611) is into the late 1990s. These replaced the old dictel amphibious warfare submarines, USS Grayback and USS Waho. The modifications included removal of some ballistic missile launch tubes, conversion of others to diver air locks and storage compartments, and accommodations for 60-nlps SEALs. A removable DDS can be fitted to the decks of these submarrnes and tink-up with their hatches A DDS can carry one SDV plus be used to lockout large numbers of divers while the submarine is still submerged as well as launch and recover inflatable boats. Three SDV troop transports and one amphibious transport are assigned in both the Pacific and Atlantic Fleets

SDV (xm also be transported by converted which Indiang erall known as Advanced SEAL Delivers. Wesselt (ASDV), of Subsch throws as Advanced SEAL Delivers. Wesselt (ASDV), of Subsch throws a Converted to the Conv

aguiped with 'stroust byte of constal and memor usual certal SECEOATRON are substituted must other or four Special Boat Units (SBU or SPECEOATR). Acremated by two degla numbers the acres SBU (12 and 22) are further sub-organized mits three the acres SBU (12 and 22) are further to abording the subbutally trans and specials; such as the sub-organized to be the substitute of the substitute of the substitute of surveys of the seven SBUs, three are acres force and four use SUNR. The USNR SBS perform increme and coastal parcel and unterdiction (CPBI) missions. The SBS will sequence come new SBS will sequence come acres substitute of the substitute of the substitute of substitute of the substitute of substitute of SBS will sequence come acres substitute of substitut

Special Boat Squadrons (SBS or SPECBOATRON) are

The two USNR Helicopter Composite Squadrons (HCS or HELCOMPRON) are each equipped with eight HH-SOM Seahnwa, helicopters (modified Blackhawka). They are tasked with both helicopters (modified Blackhawka). They are tasked with both strike rescue and special warfare support roles. They are capable of seather, rescue, infiltration, exfiltration, and retuppl), missions SEALs reb, beartyly on air Forces special operations around for support sa well as Marine Aviation helicopters and transports and the Arm's 1600 Successi Operations Aviation Remonsk Aviation Remonsk

Higher commands, planning and support organizations for these sarrous smite are controlled by Commander NAVSPECWARCOM (7) at Naval Anaphthous Base (NAVS) Commands, and Diego CA. Protectly under and on-locations and to the Naval Special Waffers Center (NAVSPECWARCEN) personable for Self-L selection and training. The Nead Septimble for Self-L selection and training: The Nead Section of the Naval Special Waffers Development Group (NAVSPECWARDEVGRU) as located at Fleet Combant Training. Center Atlantic (FCTCLANT), Dam Nock, VA. It is responsible for testics and equipment development.

Two Naval Special Warfare Groups (NSWG or NAVSPECWARGRU) (commanded by an O-6) provide command and control as well as support to the special warfare units statemed on the West and East Coasts. These are roughly equivalent to an Army Special Forces Group A NSWTG can form task organized Naval Special Warfare Task Units (NSWTU or NAVSPEC WAR. TASKU) to control deployed NAVSPECWAR forces. In effect these are small "task forces" comprised of elements drawn from within the NSWG. They operate similar to an Army Special Forces battation Forward Operations Base (FOB) providing command and control and preparation of elements for mission execution. Addiitonally, one or more Naval Special Warfare Task Elements (NSWTE or NAVSPECWARTASKELM) may be formed to provide support to smaller detached NAVSPECWAR elements, such as a platoon. Three operate in a fashion similar to an Army Special Forces Advanced Operations Base (AOB)

Four forward deployed "named!" New al Spocial Warfare Taka Groups (NSWT GENNASTEC/WARTAS(GRU)) pravide pre-horitisty planning and coordination with other services in specific milky planning and coordination with other services in specific many planning and coordination with other services in specific many and (ARSOC). Navia Special Warfare Units (NSWU or NAVSECWARUNIT), not to be confused with the NSWTU) are these or reserved support staffs similar to theater army. Special Operations Support Commands (SOSC) These are principally concerned with coordination and logistical support of deployed coordination and logistical support of deployed

#### US NAVY SPECIAL WARFARE FORCES

SEAL platoons (reinforced by two additional men) habitually accompany Marine Expeditionary Units (MEU) (reinforced battalson landing team) and Marine Expeditionary Brigades (MEB) (reinforced regiment) on their overseas deployments. Their principal mission in this case is recommissance in support of the amphibious inroc

#### 3. NAVAL SPECIAL WARFARE ORGANIZATION

Naval Special Warfare Command Naval Special Warfare Center Naval Special Warfare

Coronado NAB, CA Coronado NAB. CA

Coronado NAB, CA

Development Group

Dam Neck, VA

Kodiak, AK

Hawan (?)

U.S. NAVV SEAL

NAVSPECWAR units based on the West Coast and priented toward the Pacific basin and Southwest Asia are

Naval Special Warfare Group 1 NSWG 1 Detachment 10

NSWG | Detachment 11 NSWG 1 Detachment 13

NSWG 1 Detachment Kodiak SEAL Team 1 Coronado NAB, CA SEAL Team 3 Coronado NAB. CA

SEAL Team 3 Detachment SEAL Team 5 Coronado NAB, CA SEAL Vehicle Delivery Team 1 Coronado NAB, CA

SEAL Vehicle Delivery Team 1 Det Hawan Pearl Harbor HI

Special Boat Squadron 1 Coronado NAR CA Special Boat Unit 11 (USNR) Mare Is, CA Special Boat Unit 12 Coronado NAB, CA Special Boat Unit 13 (USNR) Coronado NAB, CA

Helicopter Composite Squadron 5 (USNR) NAS Pt Mugu, CA

Naval Special Warfare Unit 1 Guam Naval Special Warfare Task Group Seventh Fleet SEAL Flement Western Pacific

Pearl Harbor, III Guam acufue Guam

Special Boat Detachment Western Pacific Guarr

NAVSPECWAR units based on the East Coast and expenses

NAVSPECWAR units based on the Fast Coast and oriented toward Latin America, Caribbean, Europe, and Africa are

toward Latin Americe, Caribbean, Europe, and Africa are

Naval Special Warfare Group 2

NSWG 2 Detachment 6

SEAL Team 2

SEAL Team 4

Little Creek, VA

Little Creek, VA

Little Creek, VA

Little Creek, VA

SEAL Team 2 Little Creek, VA
SEAL Team 4 Little Creek, VA
SEAL Team 5 Little Creek VA
SEAL Vehicle Delivery Team 2
Special Boat Squadron 2 Little Creek, VA
Special Boat Unit 20 (USNR)

Special Boat Unit 22 (USNR)
Special Boat Unit 23 (USNR)
Special Boat Unit 26 (USNR)
Special Boat Unit 26
Helicopter Composite Squadron 4 (USNR) Norfolix
Naval Special Warfare Unit 2
Naval Special Warfare Unit 8

Naval Special Warfare
Task Group Atlantic Norfolk, VA
Naval Special Warfare
Task Group Europe
Machinanish, UK
Naval Snecial Warfare

Naval Special Warfare
Task Group South Rodman NAS, PM

SEAL Team 6 is under the operational control of the Joint Special Operations Command (JSOC) and tasked with counterterrorism and special 0135500s along with the Army 's Delta Force Besides major training and support facilities at Coronado NAB, CA, Little Creck, VA and Dam Nock, VA, the Navail Special Warfare Command has developed support facilities at Pearl Harbor, HI and Roosevelt Roads, PR

SEALs and their supporting units have operated in Veignau Orde. 1972). Formad (1978.) Permit Gelf (1978.98; Pannes (1989.99.0), Gulf Wur (1996.91) and Somalu (1991.93) as well as many smaller contingence operations. They also participate in major exercises sich air COBRA GOUD (Thalland), BRIGHE XXX (1997.0). CEAN VENTURE (Pherois Rec.), and GHE XXX (1997.0) and continued in strong continued in the continued of the continued of the continued in strong and and water stage of these continued into site of the continued in the conti

#### 4. NAVAL SPECIAL WARFARE SMALL CRAFT

Since different SPEEDATUs have different primary misment, they are copalped with different types of small craft SPEEDATUs decisiend to SEAL support and coastal patrol and interdiction use the PB and SWCL. Those dedicated in reterrior warfare and SEAL support are equapped with the MATC and PBR. Some units are additionally equapped with the MATC and PBR. Some units are additionally equapped with the MATC and PBR.

See Spectre MK 3 and 4 Patrol Boars (PB): The all-dumman See Spectres work cauged as a high-prod weapons platform for Neal Inducts Warfare (NHV) forces. The last MK 3 were sequed in 1977 and his harf MK 4 and 1984. They are capable of deuration of the product of the seed of the seed of the seed of the unes in deep rivers, harbors, constal and open area environment on up to fix 4 and seaton. They are capapingd with complete secure communications and surface search radar yothers plus for the fitted with some red unine beings, detection and sweeping capapient if required. Normal arraneous in unitally comprised or in the cost size occurred to the seed of the seed of the seed of the open the cost of the seed of the seed of the seed of the seed of the open of the seed of the seed of the seed of the seed of the open of the seed of the

weapons on the aft deck. These may snelude two. 50-caliber M2 machine guns (on either aide), or a twin tornedo tube system, or an additional 20mm cannon all, or a mantine direct fire 81mm

	MK3	MK4
Overall length	64 ft 10-3/4 m	68 ft 5 in
Overall beam.	18 ft 3/4 m	18 ft 3/4 m
Full displacement	82,270 lbs	99,000 lbs
Draft	5 ft 1 in	3 ft 1 en
Crew	4 5	
Passengers.	Limited	
Engines (shaft hp)	3 x 600 diesel	3 x 650 diesel
Propeller shafts	2	2
Speed	30 knots	30 knots
Range		

MK 5 Patrol Bost (PUB) The Navy has released a classified request for proposals for a new PB, of which 15 are needed Specifications require the capability to transport a SEAL platoon, transportable in a C-5A aircraft, be about 80 feet in length, and capable of 40 knots. One contender is the Israels Super Divora MK II natrol bost

Cyclone Coastal Patrol Boat (PC). The Navy took delivery of the first of 13 of these steel-bulled boats in March 1993. Thes will teplace the slower Sea Spectres, which are less capable in heavy sea states. The Cyclone can conduct operations for up to ten days and can keep pace with larger surface combatants. They are equipped with complete secure communications, surface search radar, and sonar systems. They mount two 25mm MK 38 chain guns (fore and aft), two 50-caliber and two M60 machine guns, plus are equipped with shoulder-fired Stinger air defense missiles Future ungrades call for two stabilized Stanger mounts for up to six launchers. They will also receive some form of surface-to-surface missile system

## US NAVY SPECIAL WARFARE FORCES

Overall length Overall beam

Full displacement

Draft Crew 28 Passengers 10

Eugines (shaft hp) diesel Propeller shafts 2

Speed 35 knots Range 2,000 nautical miles

Riser Radar Min Armored Toop Carmer (MARC) The all-almanum MATC was designed for high-peed pairty, interdection, assault operations in rivers, harbors, and protected coastal a multiple communications sume. The creek/toop compartment is intuited with exerum and Kes lab shillaces amone? The box it leads with a phdraulic samp for toop mention and extraction. It is fall for river and inshore shallow state uperation made attraction, a third with a class made to personal the last MATCs was executed in 1978. All the shallows a state uperation in 1978 in MATCs was the carmer to the shallows a state uperation in 1978. In MATCs was the made to the proposal state of the shallows a state uperation in 1978. The MATCs was the milked in a CSA statement of M60 and M2 machine guine or MK. 19 MOD 2 genade stumbers. These MATCs can be entitled in a CSA statement.

Overall length. 36 ft Overall beam 12 ft 9 m

Full displacement. 27,390 lbs

Draft 2 ft (1 ft at high speeds)
Crew 2 (more required for weapons)

Passengers 15
Cargo 4,400 lbs

Engines (shaft hp) 2 x 280 diesel Wateriet pumps 2

Speed 28 5 knots Range 370 nautical miles

MK 2 River Patrol Boat (RPB) The RPB was developed as a high-speed, highly maneuverable river craft for use in contested areas. It can make a 180 degree turn in its own wake at full speed Its fiberelass-reinforced plastic bull and water jet promision make it an excellent craft for use in shallow, debris-filled water. The coxswain is protected by ceramic armor. It is fitted with a shortrange surface search radar and a multiple communications state Normal weapons complement include twin 50-caliber machine guns forward, two M60 machine guns (one on each side), plus an aft weapons station, which can mount a 60mm Mk 4 direct-fire mortar or 40mm grenade launcher or an additional 50-caliber or M60 machine gun. Four PRBa can be airlifted in a C-5A transport

Overall length 31 ft 11-1/2 in Overall beam 11 ft 7-1/2 m Full displacement 17 800 The Draft 2.6 Crew Passengers Cargo 478 lbs Engines (shaft hp) 2 x 210 or 280 or 300 dustal Wateriet numes

Speed. 24 knote

Ranne: 200 nantical miles

Sea Fox Special Warfare Craft, Light (SWCL) The fiberglass hulled SWCL as a collapsable craft in the process of heine phased out It mounts radios, but no neveration aids. Armament includes various combinations of 7.62mm and 50-calibor machine guns plus a 40mm grenade launcher can be mounted

Overall Jenath. 35 R 11-5/8 m Overall beam: 9 ft 10 in Full displacement 26.000 lba Draft 7 6 10 m Crew Passenuers 10 Cargo 400 lbs Engines Ldiesel Waterjet pumps Speed 30 plus knots

Range 220 nautreal miles

Small craft used by SEAL teams include the RIB, IRIB, and IBS plus various commercial inflatables, commonly referred to as combat rubber raiding craft (CRRC)

Rigid Inflatable Boat (RIB) The 24-foot RIB has a fiberglass reinforced hull and re-lon/hypaton/hoopprene sponsors. It features an industrie engine and center-assuated steering status. This small boat mounts radar, not spation, and communications as steeral to an extramptered on a strater. It now RIB is in the process of being built by, Novamanne for an exemulational of 72. This 10 meter craft, will be able to defen exist the remove all stocked use of a Novamanne for an exemulational of 72. This 10 meter craft.

Overall length 23 ft 9 in Overall beam A O Full displacement: 7.390 lbs Draft A few inches Crew ı Passongers: Carro 2 800 lbs Engine (shaft ho) 1 x 200 diesel Propellers Speed Range 70 nautical moles

Interior Rigid Inflatable Boat (IRIB). The 30-foot IRIB has a fibriglias reinforced hull and trevira polycater spontons coated with neopene and hypalon. It features an inboard engine and aff-mounted steering station. This small boat mounts radar, navigation, and communications systems. It can be transported on a trailer.

Overall length	29 ft 6 in
Overall beam	10 ft 8 m
Full displacement.	14,700 lbs
Draft	A few inches
Crew	1
Passengers.	15

5 000 lbs Cargo Engine (shaft ho) 1 x 300 diesel

Waterjets Speed

150 payteral pules Inflatable Boat, Small (IBS). The IBS has a neoprene hull and floor It is fitted with a salent running outboard engine. The IBS is easily rigged for water parachute drop or water launching from the rear of a hovenne CH-46 or CR-53 behanner with full squad equipment secured on board

Overall length 12.0 Overall beam 6 Ĥ Crow Passengers Cargo 1 000 lbs Engine (shaft hp) 1 x 7.5 gas/oil

Range

Commercial CRRC used by the SEALs include the Avon 450 (15.0), 460 (15.0), and 570 (17.0), ZaBard (15.0), and Zodiac Ful70 (15 ft). A choice of 15, 35, and 55 horse power outboard motors. are available for these costs

## LIST OF ILLUSTRATIONS

## FIGURE NUMBER

Figure 1-1

LIST OF ILLUSTRATIONS

The Mission Cycle

Figure 1-2 Phase Diagramming - Step One

Figure 1-3

Event Analysis - Step Two

PAGE

## CHAPTER 1

## MISSION PLANNING PROCESS

#### 1.0 INTRODUCTION

1.1

This chapter provides guidance for NSW mission planners. It includes discussion of a typical mission planning evelo, the use and benefit of the phase diagramming system (including an oxample). and a contingency planning checklist THE MISSION PLANNING CYCLE

A typical mission planning cycle is illustrated in Figure 1-1 [1 may be necessary to modify the order or delete one of the individual steps depending upon the available time, the operational commander's orders, or the nature of the particular mission

#### 12 THE MISSION PLANNING PROCESS

The mission planning process outlined in this section should be used as a general guideline and will require tailoring to fit individual mussians

#### RECEIVE THE MISSION DIRECTIVE. 121

#### 1.2.2 INITIATE A SECURITY PLAN:

- Code name of operation Security classification
- Cover plans/stories
- Identify personnel
- · Security measures.
  - Formulate operational deception plan

Isolation facilities



Figure 1-1. The Messon Cycle

### 1.2.3 ANALYZE THE MISSION:

- Review target analysis check list
  - Clarify exactly, what the task is (specified and implied).
    - Determine operational control (OPCON) and tactical control (TACON) over detachment during all phases of the mission
    - Determine if joint planning is required, and if so, availability of planning pubs such as Joint Operation Planning System (IOPS) Vol. IV. Additional pubs which will be of value are ICS Pubs 2, 6, and 20 and NWP 11.

clear and not ambiguous

1.2.4 PLAN THE USE OF AVAILABLE TIME (i.e., DRAW UP A TIME SCHEDULE).

1.2.5 SUBMIT AN INITIAL EEI REQUEST BASED ON MISSION ANALYSIS.

## 1.2.6 FORMULATE AN INITIAL PLAN:

- Assemble patrol members and review tasking(s)
   Study available intelligence
- Make a thorough map/chart study.
- · Review potential onems weaknesses
- Review potential enemy weakne
   Identify enemy strengths
- Identify and assign relative values to the various elements of mission (i.e., surprise, speed, stealth)
- Consider limitations and special conditions regarding communications, logistics, support, communications security, movement, intel, and other requirements
- Formulate several broad concepts of operations
- Identify assets (i.e., what support will be required and its availability)

#### GIVE MISSION CONCEPT.

- Ensure concept contains or covers.
  - Variety present more than one option
  - Completeness who, what, why, when, where?
  - Suntability plan(s) which accomplish the assumed tasks

1.2.7

	<ul> <li>Feasibility - plan(s) can be accomplished with assigned or requested assets</li> </ul>
	Rules of Engagement.
	<ul> <li>Acceptability - anticipated acceptable losses</li> </ul>
	" Limitations - operational limitations of plan compared to strength of your detachment
	<ul> <li>Request DIRLAUTH with supporting units</li> </ul>
1.2.8	REVISE PLAN, IF NECESSARY, BASED ON REVIEW OF MISSION CONCEPT.
1.2.9	PHASE PLAN/DIAGRAM THE MISSION TO

	REVIEW OF MISSION CONCEPT.
2.9	PHASE PLAN/DIAGRAM THE MISSION TO
	IDENTIFY REQUIRED EEI, EEFI,
	REHEARSALS, TRAINING, EQUIPMENT,
	SUPPORT, AND POSSIBLE PROBLEM

1.2.9	PHASE PLAN/DIAGRAM THE MISSION TO
,	IDENTIFY REQUIRED EEL EEFL
	REHEARSALS, TRAINING, EQUIPMENT,
	SUPPORT, AND POSSIBLE PROBLEM
	AREAS.

	REHEARSALS, TRAINING, EQUIPMENT, SUPPORT, AND POSSIBLE PROBLEM AREAS.
1.2.10	UPDATE EEI REQUEST IF NECESSARY.
1.2.11	SUBMIT SUPPORT REQUIREMENTS (AIRCRAFT, BOATS, FIRE SUPPORT.

1.2.10	UPDATE EEI REQUEST IF NECESSARY.
1.2.11	SUBMIT SUPPORT REQUIREMENTS (AIRCRAFT, BOATS, FIRE SUPPORT, FREQUENCIES, CALL SIGNS, RESUPPLY, GASOLINE, ETC.).

	(AIRCRAFT, BOATS, FIRE SUPPORT, FREQUENCIES, CALL SIGNS, RESUPPLY GASOLINE, ETC.).
1.2.12	ISSUE WARNING ORDER; BEGIN GEAR PREPARATION.

	GASOLINE, ETC.).
1.2.12	ISSUE WARNING ORDER; BEGIN GEAR PREPARATION.
1.2.13	CONDUCT PRELIMINARY

PATROL LEADER'S ORDER.

U.S. NAVY SEAL

1.2.14 1.2.15

BRIFFBACK

1.2.16

1.2.19 DEBRIEF.

# 1.2.20 SUBMIT POST-OP REPORT. 1.3 THE PHASE DIAGRAMMING SYSTEM

FINAL INSPECTION, REHEARSALS, AND

Provided are the essential team which should be developed from the phase days growing to time during mixing planning to the form on the phase days growing to the transport and the planning team of the planning to the transport and the planning that we team by substantially exceeding the extent and enhanced problem areas for those used in the following compile it is essential that each event be entiredly analyzed for the tree most likely exceeded failure Problem individuation is necessary to conduct the training beforehing on the serval operation (it estuates disreplanced in mental, personate, or enclosed population) to the serval disreplanced in the planning team of the pl

The phase diagramming of any mission may, mittally require to eight house of intensive concentration and brainstorming. This is common to all who have mittally used this system After problem has been woulded thousely, not should be able to Ale franch planning at mission as two to flour hours. The real key to the entire process and to successful amount on the per-operational training schedule and training objectives. Each event must be released and training objectives. Each event must be released to the contraction of the common training objectives. The contraction of the contr

#### 1.4 ORGANIZATION OF THE PHASE DIAGRAM

Divide the mission into logical, independent phases and vereins Although each mission will have the own unque profile, events Although each mission will have the own unque profile, or most missions can be separated into the following seven phases pre-mission, mercino, inflitation, extensi in the objective, criti-into intraction, and post mission Figure 1-2 depicts an event phase breakdown of a breakdown of a breakdown of a breakdown of a transport many transport mission with each phase broken down min various service.



Figure 1-2. Phase Diagramming - Step Ons

#### 1.5 MISSION PHASES

The following are definitions of mission phases

- Pre-mission. Ends when the insertion platform departs with the element onboard
- Insertion, Ends when the element departs the inser
  - tion platform

    Infiltration. Ends when the element reaches the
  - Actions at Objective. Ends when the element de-
  - parts the objective area

    Exfiltration. Ends when the element boards the ex-
- traction platform

  Post Mission, Begins at the time of return to the

# 1.6 PHASE DIAGRAMMING

Phase diagramming as a method used to develop an operational plan. When complete, phase diagramming will

- a Confirm or deny the feasibility of a concept
  - a Identify the most likely problem areas
  - a Identify a complete list of EEI/EEFI.
  - Identify all necessary equipment, rehearsals and support

### 1.6.1 ANALYZE EACH EVENT AS FOLLOWS:

- Identify the three most likely things that can be wrong and three preventive or corrective actions (see Figure 1-3)
- a Identify the earliest and latest likely times for beginning the phase, and the earliest and latest likely times for completing the phase (see Figure 1-3) By tracking the aggregate of earliest/latest beginnins/completion times, it becomes immediately an-

available time.

#### 1.6.2 CONTINUE THE ANALYSIS BY LISTING, FOR EACH EVENT:

- Necessary comprised.
  - Necessary EEI/EEFIs
  - Necessary level of training/skills
    - Necessars rehearsals
    - Operational Security (OPSEC)
       Operational Deception (OPDEC)

#### 1.6.3 PREPARE DETAILED LISTS.

After each phase has been decroughly analy, end, complete instance, on ecessars equipment and EEDERFIFE case be drawn up for properation, and the lists of necessary skills and robearnals can be checked against the lest of things that can go wrong (Sing 2). If time is a critical factor, training and rehearsals can be promitized in accordance with their relationship to the list of things that are likely, tog wrong (see figure 1-3).

#### EVENT II TRANSIT TO AO Step Two

#### EEL

Sea state/currents
Weather/visibility
Enemy surface/subsurface/sur capabilities
Time/boaring/distance to target

Enemy patrols/shipping traffic Moon rise/set/phase Sun rise/set

Enemy sensors/capabilines

EEFI Fuel duration Friendly elements in area

Friendly elements in area Transit time

OBM Machanic Navigation Boat Maintenance/Boat Handling

SKILLS

Experience in Long Boot Transits

TRAINING/REHEARSALS
Practice CRRC Long Range Navigation

Figure 1-3. Event Analysis - Step Two (Sheet 1 of 3)

EQUIPMENT
-----------

(Based on a 14 man platoon, will require additional equipment for 16 man platoon)

ORD Weapons as listed in Phase III
Ammo as listed in Phase [1]

1st Lt CRRC complete

(extra gas lines, boat compass, tool kit, paddles, towns, bridles, patch kits, etc.)

Maps/charts

Intel Maps/charts 14 compasses 2 honoculars

ET

Comm/ 2 night vision devices

4 PRC-117 14 Motorola squad radios

Medical Field med kii

Personnel Life jacket/flare Mk 13/K-bar/çammzed-up/ weapon/medical kit/E&E kit/compass/map (individual)/ web gear/ammio

TIMING

Earliest start time. 1900
Latest start time: 2100

Latest start time: 2190
Earliest completion time 0300
Latest completion time. 0500

Figure 1-3. Event Analysis - Step Two (Sheet 2 of 3)

#### THINGS THAT ARE LIKELY TO GO WRONG

PREVENTIVE/ CORRECTIVE ACTIONS

1 OBM breakdown

1 Trained mechanic Bring tools and spare parts or spare motor, if space and time permits

established

2 Navigational error

 Study permanent geographical features and know itdes, currents and winds Take into account sea state. Always steer to left or right of target so once landfall is reached a direction to target is

3. Run low on fuel or run out of fuel 3 Run trials with a fully loaded boat in various sea states to get exact fuel consumption figures. Take enough fuel for a worst case scenario.

4 OPSEC - Encounter enemy forces prior to mission completion 4 Execute immediate action drills upon contact, continue mission if possible or F&E

5 OPDEC - Press corps penetrates Nav al base after mission 5 Avoid press, maintain cover atory

Figure 1-3. Event Analysis - Step Two (Sheet 3 of 3)

#### 1.7 PLANNING FOR CONTINGENCIES

The following is a list of situations that could negetively effect an operation. Some of these apply to every operation and should be planned for accordingly.

#### 1.7.1 CONTINGENCY CHECKLIST.

One must formulate alternate plans to deal with the following potential contingencies

- Leunch or landing occurs at wrong position
   Date or time of the launch is delayed.
- Late or early arrival at the objective
  - Rough weather causes delay or cancellation of the operation
- Unpredicted tides/currents (tides or currents differing from those planned for the operational time period)
- Enemy contact (petrols, patrol boats, search lights, sentries, etc.)
- Discovery by local population (police, civilians, farmers, hunters)
- Craft and/or personnel separated or arrivo at objective at different times.
- Targets have diminished/increased or changed position.
- More valuable targets are located
- Extreme weather or clamatic change occurs
- One or more men become all, rapared, or die
   Craft capsizes, swamps, or is damaged beyond re-
  - Craft capsizes, swamps, or is damaged beyond repair

- · Member of element finits to reach one of your RVs (rendezvous sites) Lost anytime during operation

  - Lose radio contact with base and/or another element
    - · Lose special equipment · Planned resupply is a failure or cache is compro-
    - mised

    - · Must dispose of equipment · Escape and evasion plan must be initiated

## CHAPTER 2

## ESSENTIAL ELEMENTS OF INFORMATION

#### 2.0 INTRODUCTION

A thorough intelligence analysis directed at the requirements of the proposed mission will include an intensive review of the Special Operations Intelligence Folder (SOIF), if a silable, and will require that new intelligence and updates be provided by higher headquarters until the execution of the mission. If a SOIF is not available, the planners must immediately task intelligence support assets to provide an intelligence estimate based on the Essential Elements of Information (EEI) (Primary Intelligence Requirement IPIR1 (from U.S. Army) list in Appendix A. Essontrail Elements of Information (EEI) are divided into two emergeries targot independent and target dependent. Target independent EE are EEI which NAVSPECWAR forces would require regardless of the specific target in question. These EEI have been separated from the target dependent EEI to allow for more rapid processing of EEI submissions in the event of an actual mission assignment. Tho target independent EEI will be submitted immediately upon notification of mission tasking, even if the specific mission has not been identified. This will allow the intelligence community to begin producing intelligence in support of the mission as early into the mission planning process as possible. The target dependent EEL will be promule med as soon as possible thereafter (i.e., once the specific target has been identified).

#### 2.1 TARGET INDEPENDENT EEL

14

Target independent EEI's have been divided into the following four categories

NATURAL OBSTACLES

## Topography Meteorology

- Meteorole
- Hydrography

2.1.1.1

#### 2.1.1.2 MANMADE OBSTACLES

## 2.1.2 ENEMY ORDER OF BATTLE

- Ground
- Naval
- \* Air
- Communications
- Electronic
- Weapons

#### 2.1.3 SURVIVAL/EVASION/RESISTANCE/ ESCAPE (SERE)

2.1.4 MISCELLANEOUS.

#### 2.2 TARGET DEPENDENT EEI

Target dependent EEI's have been divided into the following categories

## 2.2.1 IMAGERY AND GRAPHICS.

2.2.2 TEXTUAL DATA & SUPPORT MATERIALS.

#### **CHAPTER 3**

### TARGET ANALYSIS

### 3.0 INTRODUCTION

Targets are not indicerommently stacked They are part of an orarill plan to detroy on onlive system inderticious in based on the assigned mission which directs, as a minimum, the results descrited and the prosenties of stacks for people in ystems. Based on this mission, the Patrol Leader whether the openedies right and these elements on which to conduct the stack. For specific Special Operations target without between the open the stack and the open the stack of the people of the people of the stack of the people of the

# 3.1 TARGET SELECTION

Target refection requires detailed intelligence, thorough planning, and is based on the following six factors (CARVER).

# 3.1.1 CRITICALITY.

A target is oritical when its destruction or damage will have a significant influence upon the enemy's ability to conduct operations. Each target is considered in relation to other elements of the marketular target is considered in relation to other elements of the marketular target is vitem designated for interdiction.

# 3.1.2 ACCESSIBILITY

A target is accessible when at can be suffiltrated either physically or by direct or indirect weapons fire (if and when that particular target can be destroyed/damaged by indirect fire methods).

# 3.1.3 RECUPERABILITY.

A target's recuperability is measured in time (i.e., how long will it take the enemy to replace, repair, or by pass the damage/destruction of the particular targets

# 3.1.4 VULNERABILITY.

A target is vulnerable if the patrol has the means (i.e., explosives, weapons, manpower and expertise) to destroy or degrade the target

# 3.1.5 EFFECT ON POPULACE.

Will the mission elect a positive or negative reaction by the civilian populace? Will this reaction have long term offects if friendly forces move into the area?

# 3.1.6 RECOGNIZABILITY.

Will the target be easily recognized by the patrol? What features will assist in its identification?

# 3.2 TARGET SYSTEMS

A target system as a sense of interrelated elements, which together serve a common purpose A target is one cliement, an installation, or an activity identified for attack used as a locomore, a tram, a bridge, or a prison A target complex in numerous largets in the same speceral area such as a railway amphiding yard, as artified, or per cided, finelishes A target visitem my consist of an indistant eyetem and six sources of raw material, the rail, and the same special prison and the sources of pross materials the rail and the strangerout due to source of prossing server should been materials are transported, the source of prossing the strangerout due to the strangerout due to source of prossing the strangerout due to the strangerout

# MAJOR TARGET SYSTEMS INCLUDE: 3.3 3.3.1.1 Railroad tracks are easily interdicted because it is

#### 3.3.1 PAR WAY SYSTEMS

almost impossible to effectively quant tope stretches of track Rolling stock may be simultaneously attacked with track intendiction. Loosening tie mountings, removing fishplates, offsetting track and using demolitions or special devices on curved sections of track or switches to cause train detailment, may result in captured or destroyed supplies, elimination of enemy personnel, or liberation of prisoners. Repair facilities and equipment are usually gnarded and may be more difficult to attack

3.3.1.2 Limited operations against railway systems and related facilities are only har assment, therefore, widespread operations are needed to severely offer the enemy.

#### HIGHWAY SYSTEMS 337

Damaged highways are easily renaired and require less critical materials and skilled labor than railway systems. Therefore, points scleeted for interdiction should be in areas where the enemy cannot easily re-establish movement by making a short detour. Since highway a have fewer vulnerable snots, these critical points will likely be heavily defended. Where highways cannot be destroyed traffic can be disrupted by successive roadblocks, real and dummy mines, booby traps, sniping, misdirection of route signs, or by soreading objects for puncturing tires. Ambushes are conducted when suitable terrain is as adable.

#### WATERWAY SYSTEMS. 3.3.3

The most critical facilities of waterway systems are ports. dams, canals, locks, and related repair equipment. They are usually well guarded since their destruction can disrupt water traffic for long periods. Waterway control and mayingtional component such as signal lights, beacons, microwave communications systems, channel markers and busys can be attacked effectively. Sinking sesses in retritted channels, derupping bodges in waterways, creating sidest, and destroy mig lerves can block materies traffic Because of security and the amount of explosives required, dostroying a dam will often be beyond the capability of small units A lesser degree of damage (i.e., destroy floodgates, sluce gases, ste.), is an option.

# 3.3.4 AIRWAY SYSTEMS.

The enemy's multitusy/commercial annews, systems, can be disupted by interdetining antifields, parked anercals, and related facultion Terminals, humgars, repair thops, field deposts, radar and radio managation controls, lightness, communications, and deferrine systems are targues Elimentaling lightly and ground personnell sides can option Wospons may be available to attack and destroy low flying surreaft.

# 3.3.5 COMMUNICATION SYSTEMS.

Widelb, dispersed communication is stems present excellent savidable, dispersed communication is stems present excellent savidable communications and elegation destroying manifestive unailly results in degradation of communications. Alternate and empency means of communications are usually an sitable, however, destruction of any part of a communication system creates an overload on remaining facilities.

# 3.3.6 POWER SYSTEMS.

Electrical power nets can be mendicted by destroying crosscountry of local high tension lines. Distribution power lines located in reaction area, which would make repair/replacement difficult are good targets. Substations, allowigh critical, can be bypassed in a relatively, that rune by improvised wring interdiction of power nets can be accomplished by destroying power generating sistions and related equipment. Water systems supplying industry can be disrupted by attacks against reservoirs, pipelines, and purification plants

# 3.3.8 FUEL SUPPLY SYSTEMS.

Attacks against an enemy 's fuel supply system has c far-reaching effects on his economy as well as his ability to conduct and support military operations. Surface and underground fuel storage tanks, depots, preliming systems for tank mucks, rail tank cars, iransport vehicles, and vessels are all good targets

### CHAPTER 4

# MISSION CONCEPT

### 4.0 INTRODUCTION

Once misson and target ambytis have been completed, the Partil Leader thould formulate he have concept of operations prior to attaining his detailed planning. The Partil Leader presents for Operational Commander with he occept. This permits the Operational Commander with near the concept that the operational Commander with near the concept of the Commander operational Commander to the present of the Partil Leader's concept of misson execution, general rather than specific destilet will be presented in the Partil Leader's concept, the Partil Leader's concept of misson execution, general rather than specific destilet will be presented in the Partil Leader's concept, the Partil Leader's concept, the Partil Leader's concept, the Commander concernment of the Commander concernment.

# 4.1 MISSION CONCEPT (FORMAT)

Upon completion of initial planning, a message is sent in the following format to the Operational Commander (if not co-located) to allow for coordination of the mission.

- A Mission. Mission statement taken directly from the mission directive
  - B Insertion. Method, time, equipment, and support required
    - C lafiltration.
      - · Method, time, and equipment
      - Route to target, i.e., beach landing site, DZ or water DZ, LUP's (Lav Up Points) on route

- D Execution, (actions at objective)
  - Type of action at the objective
    - Method of reconnaissance of targets
    - Ordnance/demolitions to be used.
    - Security during action at the objective
    - Action upon completion of target execution
       Prenlanned fire support plan

#### F Excitration

- · Method, time, equipment and support required
  - Route from target
- · LUP's en route
- F Extraction, Method, Time, equipment and support required

  G Alternative Actions, Plan for rendezvous of element and
- subsequent action in case of compromise or escape and evasion.

  H State Assumptions, (i.e., infil/exfil platforms available)
- I State Sapport Requirements. (i.e., aircraft, fire support, etc.)
  - J State Operational Limitations.

# RULES OF ENGAGEMENT (ROE) CONSIDERATIONS

The Patrol Leader must know precisely what the priority of the mission is before departing isolation, in terms of

A 1s the mission continued or aborted if

tary.

· Suspected compromise occurs by civilians or mili-

42

- Known compromise occurs by civilians or militars
  - Contact has been made and broken
     POWs/detaunces have been taken.
  - POWs/detainees have been taken
     An indigenous guide refuses to continue at some
- point in the petrol.

  B Degree of aggravation among the local populace is accept-
- o Degree of aggravation among the tocal populace is acceptable
  - C Primary target has been altered or degraded
- D. What is highest priority: remaining covert, clandestine, or taking out target regardless of cost?
- E Alternate targets/mission. Are there secondary missions in case primary cannot be fulfilled? Are there higher priority targets/missions of opportunity which may take priority over assigned mission?

# CHAPTER 5

# WARNING/PATROL LEADER'S ORDERS

# 5.0 INTRODUCTION

This chapter discusses the use of both the Warming Order and the Patrol Leader's Order (PLO). It identifies the preparatory intenof both orders while demonstrating the greater level of detail required to issue an efficiency PLO Format samples for both orders are included in each respective section.

# 5.1 THE WARNING ORDER

The Warning Order is to warn the patrol members of an impending mission and to organize their preparation for that mission. The forms outsined below overes the information necessity for a warning order. The detail covered in each section is distributed by the Patrol Leaders to ensure proper understanding by his patrol.

# 5.2 WARNING ORDER (FORMAT)

the patrol (use the tasking message as your basis)

A Situation: Brief statement of enemy and friendly situations

B Mission: State in a clear and concise manner the mission of

### C General Instructions:

 State the general and special organization to include the element or the team organization and the individual duties. For each person state.

- Position or primary responsibility
- Weapons, ammunition and demolition material (type and quantity) to be carried
- Assignments to special detachments or teams
- Special indexedual equipment
  - Special individual equipment
     Assignments for preparing platoon equipment
- (type, quantity, and expected operational requirements)
- The uniform and equipment common to all, to include
   Type of matform
  - · Civilian, deceptional clothing, or camouflage
  - Web gear
    - · Escape and exasion year
    - Footwear
    - Rations
- Sleeping gear
- Weapons, ammunition, and equipment each member will carry
  - 4 Chain of command.
  - 5. A time schedule for the patrol's guidance on
    - Drawing equipment
    - Test firing of weapons
       Muster(s)
    - Patrol Leader's order
    - Support personnel brief
- Departure.

  PATROL LEADER'S HANDBOOK

# WARNING/PATROL LEADER'S ORDERS

Time, place, uniform, and equipment for receiving the patrol order

- 7 Times and places for inspections and rehearsals.
- D Specific Instructions:
- To subordinate leaders
- 2. To special purpose teams or key individuals.

# 5.3 RECOMMENDED BRIEFING ASSIGNMENTS

Although one should be capable of writing the warning order alone, it is botter to involve the plateon in the process. One needs to review inputs, and their research will save considerable (time Recommend the following assignments:

- a Situation/graphs/charts
- b Dive brief
- c Jump bnef
- d Cast brief
- e. Navigation f Communications plan
- f Communications plan g. Medical plan h. Escape and es asson plan
- Diving Supervisor
  Jumpm aster
  Castimater
  Navigator (Pointmun)
  Communicator
  - Communicator
    Corpsman
    Intelligence Representative

Intelligence Representative

# 5.4 PATROL LEADER'S ORDER

The Patrol Leader's Order (PLO) at used to pass the detailed plan to those tasked with execution and selected others who need to know Phase diagramming is the preferred method used to develop operational plans leading to issuance of a PLO. The success of an operation may be directly attributed to the quality of the orders the Patrol Leader susses for the operations.

# 5.5 PLO SEQUENCE

A set PLO sequence is used to ensure that

- · All relevant information is included
  - It is logical.
  - It is clear and concise
- It is clear and conc
  - It is easy to follow for taking notes
     It is easy for recipients to quickly grasp all details

# - It is easy for recipients to quickly grasp an details

### 6.6.1 THE FOLLOWING FIVE PARAGRAPH SEQUENCE IS USED:

- Situation. Hydrographies, topographies, weather, and intelligence data. What is going on now and developments which have led up to the present situation.
  - a Mission. What is the task?
- Execution. How will task be performed?
- Administration and Logistics. Administrative requirements for the task
  - Command and Signals. Command and communications aspects.

# 6.6.2 BAD PLOS

If the recipients of your orders know why the plan was made, what the intent is, how, when, and where to carry the orders out, and what part the individuals are going to play, your orders wift be successful. Bad PLOs are characterized by

- Confusion
- Lack of confidence in you or your plan
- · Failure to carry out the task.

# WARNING/PATROL LEADER'S ORDERS

# 5.6 PRE-PLO CHECKLIST

Prior to the arrival of the PLO recipients ensure that

- The location of the brief is prepared (seating, boards, lighting, etc.).
- A model or sand table of the objective is made up, when possible.
   Maps, charts, air photos, and other aids are avail-
- able. They should remain out of sight until they are presented.

  Set security in the briefing ares.
- act security in the oriening at
- Conduct a muster.
  - Seat all the personnel in a logical sequence (e.g. swim pairs, assault groups, support personnel, etc.)
     no one should be allowed to lie down, sit in the back of the room, etc
- Ensure that all personnel have the necessary materials required to receive the orders (e.g., pencil and paper)

### 5.7 PRESENTATION

Ability to give a good Patrol Loader's Order depends upon subject knowledge and presentation techniques. Consider yourself a salesman while giving your PLO. When firsthed, everyone should be "sold on the idea." Remember, PLOs are orders and not a planning conference nor a time to debate tactical options. If you do not know the answer to a question, admit in PO NOT BLUFF.

## 874 BRIEFING TECHNIQUES

Present the PLO clearly and concisely, ensuring that

All headings from the PLO card are given

- State that questions will be taken after each major section (i.e., situation, mission, execution, administration and logistics, command and signals)
- State the mission twice
   State all coordinates twice (other than in the mission
- Which is given twice anyway)
   Use a pointer for charts, models, and photographs
  - When necessary, have someone assist by pointing as you brief
    - Synchronize watches at the end of the PLO, then very generally summarize plan and allow time for all personnel to consider the orders
       Take outstions from the members of the group to
  - Take questions from the members of the group help clear up points of confusion
  - Ask confirming questions
     PLO INTRODUCTION.

# A Muster

5.7.2

- B Sot accumity
- C Time eheck
- D. Warning order review (ensure all assigned tasks have been completed)
  - E Mission (brief statement including reason for the tasking)
  - F Chain of command and description of duties

#### WARNING/PATROL LEADER'S ORDERS

#### SITUATION. 5.8.1

#### A Weather

- Visibility
- Wend
- Weather • Temperature

PLO FORMAT

- · Procepitation
- · Cloud cover
- · Water temperature
- Sun rise and set
- Moon rase and set
- · Tides
  - ° Low\_\_\_\_
  - ° High
- Current
- Surf \* Height\_\_\_\_
  - ° Pened \_\_\_\_\_

# B Terrois

- Type of terrain • Relief
- Vegetation Density of vegetation
- Cover
- Concealment
  - · Roads · Rivers, canals, streams on routes
- 30

- · Clearing for LZ's Population concentrations
- · Enemy installations on routes · Obstacles (swamps, bogs, chiffs, etc.)
  - · Sustability for radio transmission
  - · Overhead camopy
  - Beach
    - - obstacles ° gradient
        - ° current
        - ° kelp
      - " width/depth of beach
      - ° type of sand
      - \* trafficability
      - beach exits hinterland vegetation
  - · Drinking water availability
- Aerial photos/maps available C. Enemy

# · Identification

- Location
- · Activity
- · Strength
- · Clothing
- · Weapons
- · Emplacement/fortifications Warning systems
- Domestic animals
- · Booby traps or mines

#### WARNING/PATROL LEADER'S ORDERS

- Estimate of action on contact
  - Routes, modes, and times of travel
     Enemy force activity/routine
- D Friendly
- Transportation available
  - Fire support available
    - 9 how much
      - what kind
         reaction time
      - o accuracy
      - ° spotting method
    - reliability
  - Resupply sources available
     Other friendly patrols
    - o how many
    - ° where
    - o identification
  - Mission of next higher unit
     Guide availability
- E Target

32

- Location
- Obstacles
- Natural defenses
- Illumination
- Avenues of approach
- Best method of finding target
   Number and types of structures

## F Other

- Civilian attitude toward U.S military
  - Economic situation of population
  - Education/cultural factors
     Religion
- G Reliability of Intel Source

# 6.8.2 MISSION:

What the patrol is going to accomplish and the location or area in which it is going to be done

# 5.8.3 EXECUTION.

- A. Overnii concept
- B Other Missions
- C. Coordinating Instructions
  - Titue schedule (WO)
  - Primary insertion
    - <sup>0</sup> time schedule
    - o location
    - ° method
  - Positions in insertion platform
     Primary approach route
  - Departure for friendly areas
  - o identification
    - <sup>e</sup> location
    - ° method

#### WARNING/PATROL LEADER'S ORDERS

- · Prominent terrain/mammade features along anproach route
  - · Organization for movement during approach
  - · Actions at dangar areas
    - ° rivers
      - o roads and paths
      - open areas built-up areas
    - · 9 Rallying points
      - \* IRP (Initial Rally Point)
    - ORP (Operational Rally Point) o others
    - · Actions at the objective area
    - · Organization for movement during exit
      - · Primary exit route
      - · Prominent terrain/manmade features along axet muste
      - · Re-entry into friendly areas
        - ° identification
        - location
        - o password
        - o argnals
      - · Primary extraction
        - \* time window
        - o location o method
      - · Positions in extraction platform
    - · Debriefing

#### D Atternate Plans and Contingencies Alternate insertion/extraction

- a meet
  - - (1) time window
      - (2) location (3) method
    - o extract
      - (1) time wandow

      - (2) location
- (3) method
- Alternate routes
  - o approach
- o post
- · Drop dead/turn around times
- · Actions on enemy contact
  - o ambush (sound off return fire)
    - (1) front
      - (2) flank
      - (3) rear
      - (4) on insertion/extraction
    - - (S) when patrol is split
      - (6) crossing stream or road
      - (7) in boat/helo/CRRC/schiele
    - toutect of seems of
  - \* meffective/random five o hooby traps
- · Handling wounded/dead
- · Escape and evasion plan
- Other

#### WARNING/PATROL LEADER'S ORDERS 584 ADMIN AND LOGISTICS

# B Arms/ammo (WO) C Uniform and Equipment (WO)

A Rations/water

- - D Special Equipment (WO)

# E Resapply Plan:

- Time
- Source
- · Supplier · Stenals
- F. Haudling Wounded

# G Handling Prisoners

- · Search, separate, silence, speed, safeguard
- · Retain all stems found
- · Field interrogate
- · Life incket · Handling snetructions

#### 585 COMMAND AND SIGNALS.

- A Hand Signals
  - Stop Set perimeter
    - Danger area
    - Head count
  - Pace • Enemy
- 36

- · Friendly · Hear something
  - · See something OK
  - - · Get down
      - Speed up
      - Slow down
      - · Open interval
      - Manmade structure
    - · Boobs trap
    - 17. Rally
    - Road
    - Objective
    - · Get on line

# **B** Radio Commanications

- Frequencies
  - o primary
  - <sup>b</sup> secondary
  - ° admin
  - emergency
- · Call stgms
- · Codes/code words
- o insert
- ° extraction
  - o shift frequencies
  - o contact
  - o medevac
  - - shore bombardment/artillery support
- air support

### WARNING/PATROL LEADER'S ORDERS

- cease fire
   Authentication plan
- Time/type of reports
- C Challenge and Passwords
- D Lost Comm Plan
- E Position Marking (Day and Night)
  - F Enemy Position Marking
  - G. Command
    - Chain of command
    - · Location of Leaders
      - during insertion/infiltration
         in patrol
      - o in danger areas
      - at objective
         during extraction/exfiltration

# CHAPTER 6

# BRIEFBACK

### 6.0 INTRODUCTION

A briefback is a detailed brief given by the Patrol Leader, and if required, key members of the patrol, to the Operational Commander for the purpose of demonstrating to him that

- The operational plan is well thought out and complete
  The members of the patrol are familiar with the plan

  The members of the patrol are familiar with the plan

  The members of the patrol are familiar with the plan.
- and understand their role in the operation.
- The plan will accomplish the assigned objectives

A brefrack is given near the end of the planning sock, either entire plan has been developed. The exact location of the briefback in the planning syck, as well as the forms and mount of detail required, will depend upon the Operational Commander. The following formst te me example of a detailed briefback. The other has been divided into sections and may be given by various members of the patriol. This is a method that may be used to accomplish the objective stated above.

Briefbacks may or may not be required depending on who the Operational Commander is, where he is located retaint to the platoon, and how much time iere subble prote to mismon necession Additionally, the situation may dictate a brief back lasting from 10 minutes to over a hour. The plation commander is provided the following information in order to familiarize himself with the briefback.

#### 6.1 BRIEFBACK (FORMAT) SITUATION/MISSION -

Briefed by Patrol Leader.

# A Classification

BRIEFBACK

611

B Overall situation - any changes or updates from target folder

C Missian - as stated by tasking (state twice)

D Parmose.

E. Assumptions and operational limitations

#### INTELLIGENCE -617

Brief threat to detachment.

### A Area of operations.

· Weather

\* Existing situation Include light data and cimatic information or a weather forecast. significant to the mission

" Effects of the weather on the friendly situation to include effects on reaction time and courses of action

<sup>6</sup> Effects of the weather on the friendly supation to include effects on personnel, equip-

# • Terrain

Relate the following factors to the mission and explain the effects on both the enemy and friendly untertion

Observation and fields of fire Cover and concealment

ment and actions

- Obstacles (marunade and natural)
- 6 Key terrain features
  - Avenues of approach available to both enemy and friendly forces
    - (1) High speed routes to infiltration. target and exfiltration areas
    - (2) Effects on enemy reaction time and
- Consider the state of the stat
- transportation systems, by drography, communications systems, etc.).

  B Enemy situation. The general description of the enemysituation to include details of enemy forces which may effect the
- mission Be concise

   Disposition (reference an overtar)
  - Composition and strength.
  - Commuted forces and reinforcements
     Compute enemy reaction time to the objective areas. LZ/DZ/BLS, and the rally points. Relate this
  - information to the time schodule

    Other enemy capabilities (tactical air support, air movement aireraft, CBR capabilities, RDF equipment, etc.).

#### C Friendly situation

- D. Other intelligence factors as they relate to the mission.
  - Recent and present significant activities of the civilian populate (curlews, population control measurement)
    - ures, etc.).

      Peculiantics and weaknesses which may affect the mission personnel, intelligence, operations, com-

#### BRIEFBACK

- but service equipment, civil-military operations and
  - personalities.
  - EEI
    - · Intelligence reports, as required
    - - · Map coverage. Counterintelligence measures.
    - · Estimates of guerrilla forces and underground or-
- gazizations include the following disposition. composition, capabilities, recent and present siginficial activities, peculiarities and weaknesses strength, leadership, morale, and security measures.

#### 613 GENERAL OVERVIEW.

- A Concept of operations.
- B Unit presuization and chain of command INSERTION METHOD.
  - C Personnel Responsibilities.

#### 5.1.5 ROUTES

- Infiltration
  - <sup>o</sup> Primary.
- Alternate • Exfiltration
- - ° Primary
  - O Alternate.

814

# BRIEFEO BY THE PATROL LEADER. A Target orientation.

6.1.6

- B Target analysis
- C. Method of attacking target.
- D Alternate plans

# 6.1.7 EXTRACTION METHOO.

# 6.1.8 RENDEZVOUS/EVASION AND ESCAPE PROCEOURES.

ACTIONS AT THE ORJECTIVE .

- A. Rally points and rendezvous plans.
- B. E&E plan for all phases of the aperation.

### 8.1.9 COMMUNICATIONS

# A. Equipment.

- Type
- Ouantity
- Compt plan.
- C Lust comm plan.
- D. Internal communications.
- E. CEOI considerations.

# 6.1.10 MFD

# .1.10 MEDICAL.

- A Health status of detachment.
  - Shots up to date
  - Medicinal requirements
- B Medical training of detachment
- C Precautions/preventative measures
- D Handling of injured
- E. Nearest friendly medical facility.

# 6.1.11 CLOSING STATEMENTS -BRIEFED BY PATROL LEADER.

- A Readiness of detachment.
- B Questions.
- C Classification.

# 6.2 BRIEFBACK PRESENTATION

A briefback presentation should be prepared to fast about one hour, with about forty minutes devoted to briefing various phases and about twenty minutes for question/answer and discussion Briefback presentations should include the following

A Briefback Packet. Present Operational Commander and key personnel present with a packet of your final plan, including phase diagrams. The packet about the energy written or typed double-typeced in large scepts and easy to read. The brief should follow along with the packet, allowing each person to read the brief 'high pount, see the applicable maybrouster, and easily write down notes or questions. A copy of This packet will remine with the Operational Commander and Mission. Coordinators. Should questions arise concerning the extraction plan, RV plan or other crucial phases of the mission while the platoon is in the field

- B Visual Aids. Key visual ands should be included in the briefback packet. The only remaining necessary visual aids are maps and pictures of the AO from small to large scale and a general time schedule. Such visual aids should be referred to a number of times during the course of the brief.
- C Purpose of Mission. Briefly explain the significance of the mission to future operations (e.g., how the radar installation you are disabling will allow a follow-on air strike).
- D. Situation Briaf. This brief should highlight the natural disadvantages and enemy strengths the patrol will avoid and, conversely, the natural advantages and enemy weaknesses the patrol will exploit.
- E. Assumptions. State the areas where key intelligence was evalable and the logical assumptions made based on the intelligence that was evalable
- F. Executias Decisions. With every phase of the operation, briefly explain what the Patrol Leader is doing and key decisions expected during the operation
- G Operation Weaknesses. Every operation has a weak phase or phases Identify these phases as such, while clearly outlining procustions taken and back-up plants to minimize chances of failure.
- H Detailed Plans. As a rule of thumb, briefbacks should brief the platoon's plans in general and coordinated support requirements in detail (e.g., brief where and when helicopter pickup required, not how the patrol will six in the helio) Detailed platoon plans should be covered in the PLO during solution.

- I Insertion/Extraction. Alternate RV plans Those should be planned and coordinated in detail and simply briefed (time, place, signals and method).
- J Infiltration Entiration Medies. These should be planned in detail and simply briefod For example, the exact course(s) and sesting arrangement need not be briefed for a CRRC militarion, but highlights such as overall distance, bestworst speeds and anticipated fuel consumption should be briefed.
- K Time Line/Phase Diagram. Phase diagram should be included in the briefing packet and should be used during brief and execution phase. Emphasize key phases, alternatives, drop dead times and related information.
- L. Communications. Include a complete CEOl but brief only the highlights. Also include a "no comms" plan of action
- M Questina and Answer Session. As discussed, brief the highlights but have all the details of PLO available should questions arise

# N. At the Concinsion of the Briefback:

- Security.
   Upon conclusion of brief, collect all notes/briefing
- material including all briefback packets and leave them with Mission Coordinator or Operational Commander
- Sensitive Equipment.
   Serial numbers or copies of Forms DD1149 for
  - weapons, radios and other sensitive equipment should be left with the Mission Coordinator or Operational Commander prior to daparture on the mission.

# CHAPTER 7

# POST EXERCISE/OPERATION REPORTS AND INTELLIGENCE DEBRIEFS

# 7.0 INTRODUCTION

All Post-Exercise/Operation reports are to be prepared in accordance with the following format.

# 7.1 POST-EXERCISE/OPERATION (FORMAT)

From:Officer-sn-Charge, \_\_\_\_\_Platoon, SEAL Team

To. (Operational Commander)

Via: (Chain of Command)

Subi POST-OPERATION REPORT FOR

Ref

Encl: To include but not limited to.

- · Activity participants
  - Schedule of key events
  - Details on any subject which the writer wishes to treat in depth (e.g., proposed new procedures, details of a certain aspect of an operation, analysis of OPAREA, etc.)

# POST EXERCISE/OPERATION REPORTS

 Comments and recommendations section from the past after action report for this activity. This will provide the reader with a perspective of the evolution being conducted, whether recurring problems limit it a value, and whether there is an upward or downward trend in the value of the training.

# TIMS/EPS Abstract

O Background.

Key references and events which had a sigmiscant impact on the activity and its outcome

# Summary. A summary of what happened. This should. Output Description: Output Des

be brief. Items that the writer believes warrant detailed treatment should be dealt with in an enclosure

Comments and Recommendations by

- Торыс
  - (1) Comment. As appropriate.
    (2) Recommendation. As appropriate.
  - (3) Action If the comment warrants a recommendation, this subparagraph should identify who the writer bebeves should take action on the recommendation

# 7.2 INTELLIGENCE DEBRIEF GUIDE

The enclosed general intelligence debreding guide aboutd be evirewed by the Patrol Leader prior to an operation in order to enable him and other members of the patrol to collect needed intelligence. An intelligence debreding will normally be conducted within a few hours of the completion of the operation. Because this is a general intelligence debreding, some of the topics discussed may or may not be applicable to your operation.

# 7.3 DEBRIEF GUIDE (FORMAT)

- A Route and outline time frame.
- B Task required and details of how and if accomplished

# C Contact

- Where and when and who fired first
  - · Enemy strength.
  - Description race sex dress equipment weapons - any known faces - ranks.
  - · Action what they were doing direction of move
    - ment reaction to contact.
    - Casualties own mon what happened/what was done with enemy bodies
  - Evidence recovered documents equipment weapons, etc.

# D Sighting Same as for a contact but in addition • How many paired members suchted

- What details were seen.
- . What evidence was left of what you were doing
- E Spottings. Relevant headings of contacts

#### apriling. Train and includes

- F Tracks
  - Location and direction.
    - Age
  - Number of personnel using trail
  - Estimated destination/origin
- G Agreraft/ships/vehicles
  - Where and when.
     Direction of heading
- PATROL LEADER'S HANDBOOK

# POST EXERCISE/OPERATION REPORTS

- Altitude/speed
   Number
- Identification
  - Identification.
     Miscellaneous.

#### .. .

# H Camps found Location and description of terrain

- Size
  - Size
- Enemy strength in it or using it
   Rudio sets/serials
- · Enemy activity.
- · Structures type, number, age
- · Fortifications, booby traps, dug outs, etc.
- Obstacles
- Sentry arrangements and warning signals
- Possible escape routes and approaches direction of
- · Food dumps in camps
- Weapon and ammo dumps
- Printing presses
   Documents
- What was done to the camp
   Muscellaneous

# I Supply dumps found

- Location and time of discovery
  - Contents.
  - Condition.
     How concealed
  - How concealed.
     When test visited.
- Age.

- · Added to since first laid down · What was done to the dump
- J Cultivation areas
  - Location
  - · Size and shape
  - · Any steps taken to camouflage at
    - Type of crops
  - · Age
  - · When last tended
    - · Any stens of habitation in area

    - · Any tracks · If near native settlement -
  - estimate excess over local demand K. Local people (from known location)
    - Location
      - · Village of onem.
        - · Name of tribe and headman
        - Number
        - · Friendly
        - · Contact previously with armed forces.
        - · Moved recently. If so, why,
        - Anv information given.
  - L Topography.
    - · Intel brief accurate. If not, what were inaccuracies
      - · Map accurate. If not, what were inaccuracies
      - . If air photos used, was the interpretation correct and useful
      - · State of tracks, if used

#### POST EXERCISE/OPERATION REPORTS

- · Had tracks been recently used
- Are other tracks or game trads found if so, where
   Reserve
  - 8 1-4 -4 -4
    - depth, width and speed
       bridges
    - ° fjords.
  - Sca
    - ° sca state
      - o currents tidal range, etc
- Water points.
- Laving up points (LUP)
- M Equipment
- N Rations
- O Morale/welfare.
- P Health
- Q Security (i.e., if not sighted by enemy or locals, any traces of solut equipment left behind which might be found later - if sighted, was your position or action likely to indicate future or other friendly activity)

#### R Administration:

- Did you have adequate preparetion time and facilities
- Any comments on the support from base during the operation.
  - Any equipment lost.
- 4 Anyone not likely to be fit for immediate further employment.

### APPENDIX A

# NSW INTELLIGENCE

# ENVIRONMENT A. 1.1 OBSTRUCTIONS/CONSTRUCTIONS

- A Natural Obstructions

   Topographic EEI
  - Meteorological EEI
  - Meteorological at
     Hydrographic EEI
- B. Maamade Coastructions/Obstructions

# A.1.2 ORDER OF BATTLE (OOB)

A. Ground OOB

A.1

B Naval OOB

C. Air OOB

D Communications OOB

E Electronics OOB

F Wespons OOB

# A.1.3 SERE

A Evasion/Escape Routes

# B. Pertinent Cultural Considerations

C. Enemy Counter-Evasion/Escape Tactics

D Contact Plans

A.2

NSW INTELLIGENCE

A.1.4 MISCELLANEOUS INFORMATION TARGET DEPENDENT FEL

IMAGERY AND GRAPHICS A.2.1

A. Area Orientation Imagery

B Target Orientation Imagers

C. Target Imagery

D Target Graphics. A.2.2 TEXTUAL DATA/SUPPORT MATERIALS

A Target Description

B Target Area Activity C. Enemy Reaction Capability

A 3

TARGET ANALYSIS CHECKLIST ADMINISTRATIVE DATA A.3.1

A Name of Facility

B. Location (Address)

C. Date of Apply Big

D. Author and Sources

E List of Attachments

#### A.3.2 GENERAL

A. Facility Description B. Facility Component Parts

#### SPECIFIC A.3.3

A Potential Target List

B Common Target List

A.3.4

C Target Relationship to Support Facilities CONCLUSIONS

## A. Target Attack Profile

B Target Damage Estimate

#### APPENDIX A.1

## NSW INTELLIGENCE

## A.1 TARGET INDEPENDENT EEI

## A.1.1 OBSTRUCTIONS/CONSTRUCTIONS

#### A Natural Obstructions

- Topographic EEL Topographic characteristics in the area of operations that would be favorable or limit the successful execution of a Naval Special Warfare means.
  - Natural obstacles (i.e., mountains, cliffs, swamps, etc.)
  - Paths/trails (1e , type, location, directions, purpose, dimensions, etc.)
    - Estuanes (i.e., waterways, rivers, streams) to include type, direction, depth, location, presence of rapids, drainage systems, atc.)
    - Hazardous areas/open plants/snow fields,
  - 2. Meteorological EE1. Meteorological characteristics in the area of operations that would be favorable to or limit the successful execution of a Naval Special Warfare mission
    - Atmospheric forecasts including

ters. etc.)

- (1) Wind direction and speed at all altitudes up to 30,000 feet
  - (2) Shy conditions (e.g., dry/wet, percentage cloud cover, presence/locations/sweel/direction of storm cen-

#### APPENDIX A 1

- (3) Air temperature up to 30,000 feet (4) Weather extremes for the area
- (5) Humsday percentage
  - (6) Effect of the topology on the weather
  - (7) Presence/effect of symmets (8) Presence/effect of electrical interfer
    - once
- (9) Presence/effect of fee or must Tehuler data for

## (1) Sunrise

- (2) Sunset
- (3) Beginning of Mornung Nautical Time
- (BMNT)
- (4) End of Evening Nautical Time (EENT)
- (5) Moonrise
- (6) Moon phase
- (7) Percentage of illumination (c) Star data for the area
- Procedures for acquiring most accurate climatological forecasts for
  - (1) Next 24 hours
  - (2) 24-36 hours

  - (3) 36-72 hours (4) 72+ hours
- Hydrographic EEL Hydrographic characteristics in the area of operations that favor or limit the successful execution of a Naval Special Warfare m1551041
- · Water temperature, to include thermocline lavers Speed, direction and schedule for currents
- · Direction, range, and schedule for tides
- PATROLLEADER'S HANDROOK

- Bioluminescence data for the area
   Depths for all water in the area
  - Water surface conditions, including floating or stationery see
    - Debris on the water surface in the area
  - \* Coastal gradients in the area
  - Location and nature of any breakwaters in the area
     Bottom composition
    - · Water turbidity factor
  - Salt water intrusion from the sea/ocean into inland water
     Dancerous manne life
    - Location and nature of any submerged natural obstacles (e.g., coral mefs)
    - Location and nature of any submerged mammade obstacles or objects (e.g., wrecks, pipelinas, cables, etc.).
- B Maamade Constructions, Manusade facilities/constructions in the area which impact on the success of a Naval Special Warfare mission
  - Locations, dimensions, construction and functions of all civilian and military facilities in the area (e.g., buildings, water fowers, power stations, roadwass, articlels, rail lines, brighting) and railroad), turnels, external vasible lighting)
  - tunnels, external varible lighting)

    a Civilian and military populations housed in the area

    Locations, operation, and function of any subsur-
  - face water intakes (e.g., for water purification or hydroelectric plants) in the area.

    2 Land and water navigational aids in the area and
  - | heir functions | Fences/harmondes/mms fields/senson fields

#### A.1.2 ORDER OF BATTLE

#### A Ground OOB

- · Organized national arms ground forces located in the area
- <sup>o</sup> Designation o Location
  - Manning level
  - Morele
    - Devel of training
    - <sup>0</sup> Uniforms
    - Current activities
      - \* Combat offectiveness
      - Massions and functions
    - Capabilities

    - Operational limitations
    - " Equipment (tanks, vehicles, weapons, etc.)
- · Organized national paramilitary forces located in the area
- · Special national forces located in the area (e.e., multin, police, youth groups, terrorists, KGB/GRUtype forces, local defense forces, coast watchers)
- · National guard force reaction canability located near the area
  - Reaction time
  - D Avenue of approach into the srea
- · Forces from other nations, especially from the Soviet Umon, in the local area
- · Ground force active/passive defensive measures employed in the area.
- Ouardposts, watch towers, checkpoints, or security stations, where located and how

PATROL LEADER'S HANDBOOK

- manned Defensive precautions, stages of alert, procedures when alerted Guard rotation schedules
- Oround patrol routes, patterns, schedules, etc.
  - O Animals used for defensive purposes. What, where when and how.
- Ground force command and control centers in the
  - ° Contor's name
  - ° Center's composition
    - What is the center's function
- Local ground forces integrated into the oversill national defense force
   Peak and low periods of mahtary activity around the
- arca
  - Local defense posture
  - Level of local civilian support to the government, to military
     Attitude of the local military and civilian commu
    - anty toward the United States, and effect of their attitude on efforts during wartime

      Access of local civilians to military facilities. If
    - military facilities employ civilians, how many and in what positions?
    - Rules of engagement for the local ground forces.
       Kinds of clothing the local civilians west.
- Any curfews in the area, and how they are enforced
   Normal military and civilian working hours in the
- Labor unions in the area and their effect on the population.
- Local currency in the area

- Level of civilian/military control by a foreign government
   Key multitary/civilian leaders in the area, and where they are located.
  - POW handling procedures in the local area
  - POW handling procedures in the total area
     Actions of the multiary and cavillan nominate under
  - Actions of the military and civilian populace under various alert conditions.
     Holiday periods observed by local military and
  - civilian forces.
    - Resistance groups located within the area
      - Recent activity.
         How supported from outside the country (especially if such assistance has been from
        - the United States)?

          Who are leaders?

## O How contacted?

#### B Naval OOB

- Organized national naval forces located in the area.
   Designation
  - i
  - Location
  - Manning level
     Morale
  - ° Level of training
  - ° Uniform
    - Ourrent activities
    - Combat effectiveness
    - O Mission and functions
    - Capabilities
       Operational limitations

- Ships and small craft (type, number, characteristics, capabilities)
- Merchant fleet ship/small craft located in the area
   Local merchant fleet routes
  - Local merchant fleet routes
     National registers of the merchant ships
  - Merchant ships coastal defense functions, what are they, and how are they conducted
  - Civilian waterborne traffic found along the coast and in the barbors (e.g., tugs, water taxis, pilot craft, fishing boats, pleasure boats)
    - ° Type
    - Maritime schedule
    - Function
       Normal activity
    - \* Location
  - Surface/subsurface maritime patrols normally oparating off the coast or in the harbor. What are thor patrol patterns, composition, schedules, communications capabilities, reaction times.
     How is the maritime defense force integrated into
  - How is the maritime detends force integrated into the overall national coastal defense force?
     What has all force command and control emissis are
    - located in the area?
      - What centers?
         What are their functions?
      - " What is the composition of each center"
    - Water borne defensive measures/early warning techniques put into effoct during an alert period (e.g., mammals, hydrophones, aubmerged nets.
    - lighting, patrols)

      Security precautions currently rehearsed by ship/small craft crews.

- Coastal/harbor anchorages What waterborne forces employ these anchorages?
- Is fishing conducted in the waterways at night?
   Local fishing regulations.
- Peak and slow times for civalian waterborne traffic in the area.
  - Dredging operations being conducted, where, how, and to what depths.
  - Piers located in the harbor, what forces tie up at these news?
- Naval forces with sonar, do the forces operate their sonar in port?
- onar in port?

   Ability of the government to draft civilian craft into military survice
- Scubs diving operations conducted in the area, by whom, where, and when?
  - · Waterborne rules of the road
    - Waterborne rules of the road
       Do the eivilian ship crews carry weapons? If so, how many and what type?
    - Is there a local UDT/EOD force? Where, what unit,
    - how many, and what is their mission
    - Smuggling operations conducted on the waterways
       Waterborne search and seizure regulations
  - Would naval ships deploy picket boats in the event of an alert?
  - How long does at take to get the various craft underway?
  - way?

    a Where are the ship repair and replenishment facilities?
  - a Craft speed limst in the harbor.
  - Local navy and civilian uniforms
- Rubber boats operated in the area, who operates them, what type, and for what purpose?

- Lights visible in the harbor at night
   Does the local mulitary have a symmetr delivery
  - vehicle (SDV) capability?

    Units in the area which have a swimmer defense mission or swimmer detection sonar and anti-swim
    - mission or swimmer detection sonar and anti-swimmer weapons

#### C Air OOB

- Organized national air forces located in the area
  - Designation
     Location
  - Manning level
  - \* Morale
  - Level of training
  - \* Umform
  - Current activities
  - Combat effectiveness
     Mussion and functions
  - ° Canabilities
  - Operational limitations
  - Aircraft assigned and markings
  - Military and civilian sinfields located in the area What are their functions, runway characteristics, capacity, operating schedules, air routes, support, etc
  - Organized national paramilitary air forces located in the area.
  - National sir force reaction capability in the area
  - What is the reaction time?
     What are the avenues of approach to the
- Air forces from other nations located in the area
   11.S. NAVY SEAL

ores?

84

- Air force command and control centers in the area.
   Where located function, and composition?
  - How do the local surforces integrate into the overall national defense posture?
  - Air force air patrols in the area. What is their size, composition, operating schedule?
    - Rules of engagement for air forces in the event of hostilities.
       Air navigational aids in the area, location, function.
  - and how operated
  - Local civil air defense force
     All weather flying capabilities of local military and
- civilian aircraft

  Aircraft alort conditions and how activated
- Air force search and rescue capability

#### D Communications OOB

- · Fixed communications sites in the area
  - O Type (e.g., SATCOM, TV. radio, telephone, telephone, etc.)
    - O Site component systems
    - Location.
    - ° Who operates them?
    - Technical parameters (e.g., frequencies, power outputs, ranges, modulation, types, etc.).
  - <sup>o</sup> Site construction
  - \* Function of each site
  - Power supply location for each site
  - Who is communicating on the facilities, and with whom?
  - Local call signs.

#### NSW INTELLIGENCE

- Antennae associated with each site, and where located
   Role of each fixed site in the overall national
  - desense posture.
- a Portable communications devices in the area
- Portable communications devices in the ares
   Capability to introduce portable communication equipment into the area, what is pe and what reac-
- tion time.

  How can the various stems of communications
  - How can the various items of communications equipment be jammed?
- Level of compatibility between U.S. equipment and equipment in the area.
- Are there civilian ham radio operators in the area, could they be introduced into the military defense organization?
- Man-portable communications equipment in the area
   Interface between civilian and mulitary communica-
- Interface between civilian and mintary communications facilities in the area
   Fixed communication cables/lines in the area, spe-
- eific sites connected to each line.

  Reliance on other than electronic communications

#### F. Flortronics OOB

systems.

sammed?

- Local electronics countermeasure (EM) espability
  - Local electronic counter-countermeasures (ECCM) capability.
    - Local electronic support measures (EM) capability, and site location.
    - Vulnerabilisies of the various ECM, ECCM, ESM equipment.
       How can the various items of compment be

- Power sources for the various items of equipment
  - Enemy night surveillance capability, and component location.
     Local backup capability for the various ECM.
  - ECCM, ESM sites
     How do these sites interface into the entire coastal
  - How do these sites interface into the entire coast defense structure?
  - Enemy direction finding (DF) capability, location of sites and what are the vulnerable nodes
- Local civilian electronic OOB, and the civilian capability to interface with the military OOB
- What forces man the various sites, and their level of effectiveness?
  - Mobile electronic OOB systems that can be introduced into the area, and their origin. Avenues of approach for such reaction force equipment.
- approach for such reaction force equipment.

  Undersea electronic COB in the area, and its capability to detect small craft, rubber boats (CRRC), and SDVs. What are the vulnerable nodes?
  - Ground sensors in the area

#### F. Wespens OOB.

- Missile/AAA
  - Fixed missile sites/AAA in the area Where are they located?
    - \* Function of each site
    - \* When were the sales constructed?
    - Operational characteristics of the missiles
    - Where and how are the missiles stored. How
    - many are in storage?

      \*\* Lowest altitude targets the surface-to-air mussles can engage.

- Launch sequence for each system, and the component parts of the launch system
   What personnel man each site (military/ci-
- What personnel man each site (military/civiban)?

  Weanon trans-shipment methods between
- storage and launcher

  Are the weapons in the sites pre-sighted and pre-armed?
- bre-armod?
   Level of operator proficiency at each site
- Who has launch authority for the site(s)?
- Vulnerable nodes for each site system
   Can the weapons in the sites be detonated
- sympathetically?

  \* Minimum and maximum ranges for the
- weapons in each site

  Maintenance schedule for each launcher in
- each site

  What reload capability for each weapon in
- each site?

  \* Self-propelled missiles/AAA employed in the area, what type?
- · Nuclear, biological, chemical (NBC)
  - Capabilities of area military to employ NBC weapons
  - O NBC weapons located in the area
  - Local method of defense using such weapons
     Local canabilities to defend against an NBC
  - attack.

    On troops carry and receive training with
- gar marks?

  \* Do troops train with actual NBC weapons?

- Onder what conditions would such weapons be employed?
  - What are the indications of the use of such weapons? (i.e., what activities would precede employment of such weapons?)
- Are locals aware of the military's ability to store and employ such weapons?

#### Miscellaneous

- Types of personal weapons (e.g., rifles, machine guns, pistols, etc.) that are located/carried in the area? Who carries them?
- Do local civilians have weapons in their homes?
- D Location of any amiones in the area
- Type, availability and amount of small arms amountion in the area
  - What are the local gun control laws?
  - \* Are the coastline, harbors, or other water-
  - ways mined? Where and what type mines?

    \* Are the land areas mined? Where and what type mines?
  - What are the sensitivities of mines in the area and how activated?
- On the naval/air forces have and deploy depth charges? How would they be employed?
- Does the enemy employ booby traps, how, when, where, and what type?
  - Do the sentries/patrols exercise fire disciplane?
  - Proficiency level of the military personnel with wemons.

#### A Evasion/Escape Routes

- Locations of nearest friendly forces
- Locations of nearest friendly borders
  - Locations of nearest Safe Areas for Evacuation (SAFE)
  - Cover and concealment between the target area and exfiltration points
    - Water and food along exfiltration route
    - Topography, vegetation, weather conditions, and dangerous wildhife, mannel life, or plant life along exfiltration route
       Dancer area(a) to be avoided.
  - Daigo action to the around.

#### B Pertinent Cultural Considerations. (See Geopolitical Brief)

- Language
- Social
- Ethnic
- Raligious
   Polyneal
- Economic
- Existence of friendly/guerrilla/underground forces/acents in the SERE area.

#### C. Enemy Counter-Evasion/Escape Tactics Population control measures.

- D Contact Plans
  - Location and direction (LOAD) markets
- Bonafides
- Recognition signals

Specific locations

#### A.1.4 MISCELLANEOUS INFORMATION

A Diseases prevalent in the area, and how transmitted

- B Camouflage measures bring employed by the military forces in the area
- C Dispersion measures being employed by the local military forces
- D. Flags, banners, pennants that may be seen in the local area, what do they signify?

## APPENDIX A.2

## TARGET DEPENDENT EEI

### A.2.1 IMAGERY AND GRAPHICS

# A Area Orientation Imagery • Area coverage to 10 square miles (mosaic for addi-

- tional area coverage required) (vertical) (10x12 format)
- Annotations:
  - ° North arrow
  - o Installation outline
  - Other installations within imagery confines
     Key terrain features/obstacles
  - <sup>o</sup> Scale

#### B Target Orientation Imagery

- Area coverage to 3 square miles
  - (vertical) (10x12 format)
- Annotations
   North arrow
  - o Installation outline
  - \* Functional areas
    - ° Scale.

### C Target Imagery

- Scale 1:5,000 (low oblique) (10x12 format)
  - Annotations
- North arrow

- o Fences
- \* Towers
  - Buildings (identify function)
  - All other structures/facilities (tanks, transformers, open storage, revelments, etc.)
  - Scale.

· Hand held photo imagers (scaled).

### D. Target Graphics

A 2 2

- Engineering line drawing or installation bluegrint
  - · Scale best possible
  - Keyed textual description required
  - · Scale and key

#### A. Target Description

- TEXTUAL DATE/SUPPORT MATERIALS. · Physical In out/functional oceanization (harracks areas, maintenance areas, administrative areas, etc.)
  - Number of structures/areas.
  - Construction of key components
    - (1) Dunensions
    - (2) Maternals
    - (3) Entry/access points and type (door, ramp, loading dock, etc.)
- · Primary/alternate power sources
  - \* Number
    - ° Type
    - <sup>o</sup> Location
    - Conduits location and type Associated facilities
- (transformers, switch yards, relays, etc.) PATROL LEADER'S HANDROOK

- ° Fuel supply (type and location)
- Communications associated with target
  - ° Туре
    - D Number
    - ° Location
  - Onk sites switch center, etc.).
  - On site security
  - ....
    - Type (fence, ditch, passive/active detection, patrol route, etc.)
    - Location
    - Description
      - (1) Dimensions
        - (2) Power source and location
        - (3) Frequency/schodule
        - (for patrois/guards)
          (4) Frequency/meetrum (electromag-
        - netic).
          (d) Internal procedures (key, cipher, per-
    - sonnel recognition, etc.).
  - Target vulnerabilities/critical damage points
     Type
    - .,,,,,
    - ° Location
    - O Dimensions
      - Construction materials
  - Stress point(s).
    Associated military facilities
    - \* Location (coordinates)
    - Type force (garreson, SAM, AA, artillery, peramilitary, etc.)
- Access routes:

- (1) Location (from target)
- (2) Type (road, rail, water; .s. etc.) (3) Transit tune with associated transpor-
- tation
- Strength (personnel)
- " Weapons (type and number)
- Organic and available transport (type and number)
- Communications with target
  - (1) Type and number
    - (2) Frequency
    - (3) Location of links/conduits
- (4) Alternate means of communications Fuel supply:
  - (1) Type fuel
  - (2) Location
  - (3) Access (hydrant, hose, hand pump. etc.)
- (4) Storage (tank, underground, barrel. etc.). B Target Area Activity. Include any noteworthy military or
- ervilian activity recently associated with or in the vicinity of the target (1 c., nearby construction, observed patterns of activity).
- C. Enemy Reaction Capability. Include a description of forces that have a capability to reinforce target security elements within short periods of time

#### APPENDIX A.3

# TARGET ANALYSIS CHECKLIST

# A.3.1 ADMINISTRATIVE DATA

## A NAME OF FACILITY

## B LOCATION (ADDRESS)

- Map Coordinates
- Geographical Area
  - <sup>n</sup> Urban
  - Suburban
     Rural

#### C DATE OF ANALYSIS

## D AUTHOR AND SOURCES

- E LIST OF ATTACHMENTS
  - Maps
     Photos
  - Brochures
  - Schedules
  - Schedules
     Sketches
  - Blueprints

#### A.3.2. GENERAL

A GENERAL DESCRIPTION OF FACILITY AND BRIEF COMMENTS ON NATURE OF OPERATION

#### B DESCRIPTION OF FACILITY'S COMPONENT PARTS

 Physical structure - sketch photo (air/ground) -(dimensions)

Communications

° Type

Backup systems

Command/control center

Power/fuel

Type(s) used - (primary) - (secondary) - (alternate)

D Amount used

(1) daily rate (2) seasonal variation

° Sources of supply

(I) on-site storage

(2) means of delivery and time required for resupply

Type of storage facility

(1) above ground

(2) underground (3) combination

\* Amount/type of fuel on hand

Reserve system and conversion time
 (1) type(s) used

(2) amount used (daily rate) (3) sources of supply

(a) on-site storage

(b) means of delivery and time required for supply

(4) type of storage facility

PATROL LEADER'S HANDROOK

#### TARGET ANALYSIS CHECKLIST

- (a) above ground
  - (b) underground
  - (e) combination

#### Personnel

- Number of employees
  - O Number present during each shift
  - <sup>0</sup> Work hours/days

  - <sup>6</sup> Key personnel (availability)
  - Labor organizations and labor/management relationships
    - Employment procedure/sharing policies.

## Raw Materials

- D Type
- D Amount
- (1) deily/weekly/monthly (2) stockpiles
- Sources of supply
- Means of delivery

#### Finished product

- " Type (flammable or not)
- <sup>o</sup> Amount (dmly/weekly/monthly production)
  - <sup>o</sup> Outlity control
  - <sup>n</sup> By-products
- (1) type (2) amount
- Distribution
- Stocknile
- Conversion to manufacture of war materials
- · Transportation and materials handling compment

- ° Type
- Amount
   Backup system
- Backup system

  Maintenance/renair
- · Flow diagram
- Flow diag
  - Security
    - " Types of system(s)
      - (1) on-site
      - (2) reserve systems and reaction
      - \* Amount employed and schedules
      - Type of armament and how employed
      - \* Location
        - Screening system(s)
        - <sup>0</sup> Communication systems
        - Orisis control equipment/personnel
          - (1) type
          - (2) amount
          - (3) location
          - (4) reaction time
          - (5) emergency access
          - (6) alarm systems (7) medical facilities
- A.3.3. SPECIFIC
  - A LIST OF POTENTIAL TARGETS
    - WITHIN COMPLEX

      B LIST OF COMMON TARGETS
      WITHIN COMPLEX

- C RELATIONSHIP OF TARGET TO RELATED FA-CILITIES/SYSTEMS SUPPORTING/DEPENDENT
  - 1 Internal
  - 2 External

## A.3.4 CONCLUSIONS

- A BASED UPON ANALYSIS OF TARGET COMPLEX, IDENTIFY AND JUSTIFY THOSE COMPONENTS DEEMED MOST SUSCEPTIBLE TO ATTACK BY:
  - A small force (1-12 men) with conventional weapons and explosives
  - A large force (50+ men) with conventional weapons and explosives
- B. DETERMINE CONSEQUENT DOWNTIME OR DE-STRUCTIVE EFFECT SUCH AN ATTACK WOULD HAVE AGAINST THE TARGET FACILITY

B.2

B 6

APPENDIX R VESSEL CHARACTERISTICS AND CAPABILITIES

SMALL CRAFT OPERATIONS B.1

CRRC/INFLATABLES

B.3 SPECIAL BOAT CHARACTERISTICS

B.4 FLEET BOAT CHARACTERISTICS

B.5 SHIPS CAPABLE OF TRANSPORTING THE SEAFOX (SWCL)

**NAVAL GUNFIRE SUPPORT SHIPS** 

#### APPENDIX R 1

## SMALL CRAFT OPERATIONS

## B.1.1 GENERAL.

B THREAT

The sensor Unrestricted Line Officer on board any Navy craft or boat is responsible for the safe operation of the craft

#### B.1.2 PLANNING CONSIDERATIONS

- A MISSION OBJECTIVE
- C. SEA/WEATHER CONDITIONS
  - D LOGISTIC SUPPORT
  - E EMERGENCIES

# B.1.3 COORDINATION.

Boat crews should be brought into the SEAL mission planting at early as possible in order to ensure that the boat's capabilities for supporting the mestion are fully exploited while also taking into consideration the boat's luminations. The planting of mainst to and from the insertiveint tool to estimate should be done jointly by the SEAL Element Commander and the boat crew to ensure that boat crew to ensure that boat crew to ensure that the states will complement the execution of the SEAL insiston.

#### EXECUTION.

R 14

The following items should be covered in all small craft plans

A. PLACEMENT OF PERSONNEL AND EQUIPMENT

- B. BATTLE STATIONS AND ACTIONS DURING:

   Transit
  - Insertion (including deception plan)
- Extraction (including deception plan)

#### C. PRIMARY/SECONDARY INSERTION POINTS

- D. CRAFT ACTION BETWEEN INSERTION
  AND EXTRACTION
- E. COMMUNICATIONS/LOST COMMUNICATIONS
  PLAN
- F. PRIMARY/SECONDARY INSERTION
- G. RENDEZVOUS PROCEDURES
- H. EMERGENCY EXTRACTION
- 1. FIRE SUPPORT

## APPENDIX R.2

## COMBAT RUBBER RAIDING CRAFT (CRRC)/INFLATABLES WEIGHT A OBS

LILEUL	A ETALLI (EADS)	LENGIB (FI)
AVON 450	270	15
AVON 460	270	15
AVDN 520	350	17
Z-BIRD	400	15 (good in rough seas)
IBS	120	13
ZODIAC F-470	280	15 (preferred over AVON 460)
RIB	4,590	24
55 hp OBM	202	N/A
35 hp OBM	118	N/A

GAS BLADDER - 18 gal (13 5 gal MAX ALLOWED ON AIRCRAFT)

GAS CAN - 6 sal (4.5 gal MAX ALLOWED ON AIRCRAFT)

15 hp OBM

TTPM

N/A

#### NOTE: Fuel consumption depends on the following variables.

- type of boat
  - speed maintained
  - · displacement and weight of personnel and cargo
    - · type of motor and propeller
    - type of moust and properter
       engine throatle setting
    - · wind speed and direction
    - · current, set, and drift
    - sca state

# APPENDIX B.3

SWCL

9'10"

6'11-3/4"

COLLAPSED

35'1 L-5/8"

MATC

312 521

DFM DFM

FBG ALUM

31'1 1" 36'

11'7" 12'9"

8'3" 5'11"

## SPECIAL BOAT CHARACTERISTICS

Mk III PB

64'10-3/4°

18'3/4"

17'6"

400

FUEL TYPE #2 DIESEL #2 DIESEL

ALUM

LENGTH

BEAM

HEIGHT

(NM)

HIII.I.

		COLL	. 000	
HOISTING (LBS)	WEIGHT 83,000	23,700	17,443	25,600
DISPLACE	MENT (LBS)	)		
(LIGHT)	63,000	21,200	15,050	22,000
(FULL)	82,500	26,000	17,800	29,500
DRAFT	5'10"	2'10*	1'11-3/8" 1'	11-3/4*
	(F	ULL LOAD)	(FULL LOAI	0)
SPEED (KT	'S) 30+	30+	23.9	28 5
COMBAT F	LADIUS (FUI	LL SPEED)		
(NM)	300	110	150	370
COMBAT F	LADIUS (REI	DUCED SPE	ED)	

150

FRG

MARINE BAND

ARC 159

Mk III PB SWCL

M.60

M-19

50

3

ı

10

500

VRC 94 2

ARC 159

SWIMMERS + CREW

M-60

20MM

M-19

Various

40MM

WEAPONS LMG

MG (CAL)

MORTARS

CANNON

MG

MAX SEASTATE 5

CREW

PAX

(LBS)

PAYLOAD

COMMUNICATIONS VRC 94


APPENDIX 8.3

PBR MATC

M2-56M M-60

60MM

2

8

4400

M2-50 50

MK-46M

<3 <3

UHF UHF

#### FLEET BOAT CHARACTERISTICS LCU LCM8 LCM6

(ST) \_\_\_(AC)

LENGTH	134'9"	73'6"	56'1"	35 8"	36
BEAM	29'9"	21 '	14"	11 2	13.5
HEIGHT (MAST UP) (MAST STO		24'	19"	o,	o'
HOISTING		24	19	,	,
(TONS)	200 LT	73 LT	27	93	8.8
DIEBI ACES	CONT OUR	VIOAT			

(TONS)	200 LT	73 LT	27	93	8.8
DISPLACE	EMENT (MA	X LOAD	)		
(TONS)	390	127	62	10	10
(LIGHT L	DAD)170				
DRAFT (E	MPTY/FUL:	L)			
FWD	2.5'/4'	3.8"	31	26'	3,9"
AFT	4 5'/6 5'	5.2"	4"	3.6"	

(TONS)	390	127	62	10	10
(LIGHT LOA	D)170				
DRAFT (EMP	TY/FULL	.)			
FWD	25'/4'	3 8"	3'	26'	3,9"
AFT	4 5'/6 5'	5 2'	4"	3 6'	
SPEED					
(KTS)	12	12	9	19	10
FUEL CAP					
(GAL)	3288	1146	466	160	160
FLIEL TYPE	DFM	DFM	DFM	DFM	DFM

SPEED (KTS)	12	12	9	19	10
FUEL CAP (GAL) FUEL TYPE	3288 DFM	1146 DFM	466 DFM	160 DFM	160 DFM
HULL	STEEL	STEEL	STEEL	STEEL	ALUM
88				U.S. NAV	Y SEAL

(CAL)	2- 50	250	2- 50	2- 50	2-50	
CREW	10	5	5	3	3	
PAX	400	150	80	17	17	
COMMUNICATIONS MOTOROLA/						

46 77

APPENDIX B.4

LCPL LCPL (ST) (AC)

Y VAL

PRC

1-B 46 VRC 46 URC 9

WRC VRD

LCU LCM8 LCM6

WEAPONS

втов

#### APPENDIX B.5

# SHIPS CAPABLE OF TRANSPORTING THE SEAFOX

SHIP TYPE STOWAGE LOCATION/METHOD OF HANDLING

LHA Stowage on trailer or deployment eradio (supplied by NSW units) in hangar deck, heavy vehicle deck, or forward well

dock area

LPH Stowage in upper cradle of double banked dolly stowage Handling by a single point

lift using ship a crane.

LST Stowage in main deck upper cradic stowage (port and/or starboard sido). Handling by double proteed link day in

LCC Stowage in third deck single banked cradle stowage (port and/or starboard side) Handling by trackway davits
LSD (28 Class): Stowage in main dock upper

(28 Class): Stowage in main dock upper cradle stowage (port and/or starboard side). Handling by Stackwin, davits (36 Class): Starkwin, davits on fill level nort side. Handling by sho's

(30 class) Slowage by nesting in LCM 6 on 01 level port side. Handling by ship's cranes. (41 Class). Stowed forward of 60 ton crane.

amidships on boat deck in 50 ft, utility boat cradle Handling by 60 ton crane (I Class): Stowage in 01 level upper cradle

stowage (port and/or starboard side). Handling by ship's starboard crane.

1.PD

SHIP TYPE STOWAGE LOCATION/METHOD OF HANDLING

LPD (con't) (4 Class) Stowage in 01 level upper cradle

stowage (port and/or starboard side) Handling by shap's starboard crane

LKA Stowage by nesting in LCM 8 in forward port and/or starboard locations, or on the No 2 hatch cover Handling by one of the 12 ship's booms

ALL SHIPS Additional stowage on trailer or deployment cradle (supplied by NSW units) is feasible on a flight deck or other stowage area

NOTE: Not all ships in the classes listed have credios configured to handlo the SEAFOX. In general, the SEAFOX is espable of being stowed in any davits credic equipped with 26,000 lb. 36-foot davits where LCPLs or LCVPs are presently slowed.

Information regarding necessary modifications to chocks, keel blocks, and gripes on LCPL and LCVP cradles to stow SEAFOX is available from the Naval Sea Systems Command, Dock and Replenishmen Systems Division Washington, D.C. 2016.

Most U.S. Navy amphibious assault stups equipped with 26,000 lb, 36-foot davits are being outfitted with a convertible cradic capable of stowing entire a LCPL Mt. LOY SEAFOX. These tradies are outfitted with two sets of chocks, keel blocks and gripes (one set for each card).

### APPENDIX B.6

## **NAVAL GUNFIRE SUPPORT SHIPS**

NO. CUNS	RANGE (YDS)
(9) 16 IN (6) TWIN 5 IN/38	40,185 17,306
(2) 5 IN/54	25,909
(2) 5 IN/54	25,909
(1) 5 IN/54	25,909
N (1) TWIN 5 IN/38	17,306
GN (2) 5 1N/54	25,909
(1) 5 fN/54	25,909
DBG (1) 5 IN/54	25,909
(2) 5 IN/54	25,909
(1) 5 IN/54	25,909
IS" DDG (2) 5 IN/54	25,909
(2) 5 IN/54	25,909
	(9) 16 TN (6) TWIN 5 IN/38 (2) 5 IN/34 (2) 5 IN/34 (2) 5 IN/34 (1) 5 IN/34 (1) 1 TWIN 5 IN/38 GN (2) 5 IN/34 (1) 5 IN/34

SHIP CLASS	NO. GUNS	RANGE (YDS)
*OLIVER HAZARE	PERRY" FFG	
	(1) 76MM/MK 75	16,300(m)
	(OTO MELARA)	
"BROOKE" FFG	(1) 5 IN/38	17,306
*KNOX FF	(1) 5 IN/54	25,909
"GARCIA" FF	(2) 5 IN/38	17.306
0.0000111	(4)	1.000
"BRONSTEIN" FF	(I) TWIN 3 IN/50 CAL	14,041
*TARAWA* LHA2	(3) 5 IN/54	25,909

APPENDIX B 6

The following amphibious ships have the 3 m/50 cal twin mount which can be used in a limited NGFS role: "IWO JIMA" class LPHs, "AUSTIN" and "RALEGIM" class LPPs, "ANCHOR AGE" and "THOMASTON" class LSDs, "CHARLESTON" class

<sup>1</sup> considered to be the best NGFS platform in USN due to variant of 5 (n/54 gun (Mk 45) and gunfire control system (Mk 86).

<sup>2</sup> with the exception of "IOWA" class BBs, LHAs are the most hosvily armed ship with respect to aunfire canabilities.

### APPENDIX C

### AIRCRAFT CHARACTERISTICS

C.1 FIXED WING AIRCRAFT

C.2 ROTARY WING AIRCRAFT

#### APPENDIX C.1

#### FIXED WING AIRCRAFT CHARACTERISTICS AND CAPABILITIES

AIRCRAFT		ORM/MAX		S PA	CAP/
C-IA	CNMU_	(KTS)	(PD		LLETS
TRADER	600	170/280	3000 X75*	10	3000
C-2 (COD)	550	260/310	1428*	28	10000
C-5A GALAXY	5600	450/496 TAKE O			221000 /36Ps
C-9B SKYTRAIN	2538	438/500	5000 X75	65	32000
C-123 PROVIDER	1500	140/240	6000 X200	42	19500
C-130 HERCULES	4460	300/335	2750	92	44000

TAKE OFF 5160 /6 Ps

#### FIXED WING AIRCRAFT CHARACTERISTICS

	OMBAT	SPEED	LANDING	# CARGO
	RADIUS	NORM/MAX	ROMNTS	PAX CAP/
AIRCRAFT	(NM)	(KTS)	OFT	PALLETS
MC-130E				

MC-13UE
COMBAT TALON 2000 300 CLASSIFIED
MISC SPECIFICALLY DESIGNED FOR A WIDE
RANGE OF SPECOP'S (LOW LEVEL, ALL WEATHER,
NIGHT CAPABLE, INSERTIAL NAV. ETC.)

AC-130H CLASSIFIED
SPECTRE
MISC MISSIONS INCLUDE PINPOINT FIRE SUPPORT

AND TACTICAL SURVEILLANCE

C-141B

STARLIFTER 5500 450 6500 150 69000

X150 //3Ps

E-2C HAWKEYE 1400 225/275 CARRIER 5 N/A AWACS

OV-10 BRONCO 265 200/341 800 5 800 X6600 P-3C ORION 4000 330/350 6000 23 47000

\*Carrier Capable

#### APPENDIX C.2

#### ROTARY WING AIRCRAFT CHARACTERISTICS AND CAPARILITIES

			LANDING AX ROMNTS	CARGO
AIRCRAFT	(NM)	(KTS)	(FT)	(#/LBS)
UH-1N IROQUOIS	227	100/115	65X65	11/5000
UH-1K IROQUOIS	260	110/130	65X65	11/2500

CH-46E SEA KNIGHT 180 120/145 200X100 23/6000 CH-53D CH-53D 223 150/170 100X100 37/8520 CH-33E SUIPER

CR-35E SOFEN
SEA STALLION 226\*\* 150/180 100X100 55/30000
HH-53H\*\*
PAVE LOW 600 170 100X100 20/30000
MISC SPECIOPS CAPARLE NIGHT CAPARILE INFR.

MISC SPECOPS CAPABLE, NIGHT CAPABLE, INER-TIAL NAV. FLIR. ALL WEATHER, ETC. CH.47

CHINOOK 275 139

139/164 300X150 45/11650

AIRCRAFT	CNMD	(KTS)	(FT)	(#/LBS)
SH-3	350	120/144	100X100	6/6000
SH-60				
SEAHAWK	370	145/158	100X100	N/A/6500
MH-60K**	300	146/160	100X100	15/6500
AH-6		CLASSI	FIED	
AH-1T				
COBRA	125	150/175	65X65	not avail.

RADIUS NORMOWAY ROMNIS CARGO

ROTARY WING AIRCRAFT CHARACTERISTICS

COMBAT SPEED LANDING

\*Combat radius figures are for a normal loadout without external tanks, tradeoffs in cargo/pax capabilities will be scenario-dependent with the addition of tanks

PAX/

<sup>\*\*</sup>In-flight refuelable

### APPENDIX D

## WEAPONS AND DEMOLITIONS

- D.1 U.S. AND ALLIED SMALL ARMS
- D.2 SOVIET/WARSAW PACT SMALL ARMS
- D.3 DEMOLITION CAPABILITIES AND FORMULAS

#### APPENDIX D.1

### U.S. SMALL ARMS

	MAG/	WT	MAX EFF.
WEAPON	CAL	(LES)	RANGE(YDS)
MACHINE GUNS			
M-60	100 RD		1100
	7 62MN		
M-60 LIGHT	100 RD		1100
	7.62MN	4	
50 BMG	100 RD		2200
	.50 CA	L	
SUBMACHINE G	UNS		
MP-5	30 RD/	4.5	110
	9MM		
CARBINES			
M-16 CAR	30 RD/	6	440
	5.56MN	4	
ASSAULT RIFLES	5		
M-14	20 RD/	- 11	660
	7 62MP	A.	
M-16 A1	30 RD/	7	440
	5.56MP	d .	

			APPENDIX D	1
	MAG/	WT	MAX EFF.	_
WEAPON	CAL	(LBS)	RANGE(YDS)	
SNIPER RIFLES				
MCMILLIAN/	5 RD/	9	1000	
REMINGTON M-70		M		
MCMILLIAN M-86	5 RD/ 7.62M	MI 10	1000	
50 BMG SASR	SINGL .50 CA		1950	
PISTOLS				
H&K P-9S	10 RD/ 9MM	2	55	
45 1911 AI	8 RD/ 45 CA	2 5 L	55	
BERETTA 92F	15 RD/ 9MM	_	55	
S&W MOD 686	6 RD/ .357 C		55	
MISCELLANEOUS	ŝ			
REMINGTON	SHOT		55	
MOD 870	12 GU	AGE		
M-203 GRENADE LAUNCHER	Single 40MM		330	
M-3 CARL-GUSTAI RECOILESS RIFLE			1100	
SHOULDER MOUN ANTI-ARMOR WE		16 SMAW)	330	
AT-4 ANTI-ARMOR	Single 84MM		330	
PATROL LEADER'S H	ANDBOO	К	1	01

#### APPENDIX D.2

#### SOVIET/WARSAW PACT SMALL ARMS

		WT	MAX EFF.
WEAPON	CAL	(LIS)	RANGE(YDS)
MACHINE GUNS			
PKM (BELT FED)	7.62MM	44	1100
RPK (MAG FED)	7.62MM	28	875
ASSAULT RIFLES	i		
AK-47	7 62MM	9.5	330
AKM OR AKMS	7 62MM	7	330
AK-74/AKS-74	6 64MM	8	
SVD SNIPER RIFL	E 7.62MM	9	660
PISTOLS			
MAKAROV PM	9MM	1.4	55
PSM	5.54MM	ı	55
ANTI-ARMOR			
RPG-7	40MM	17	330
RPG-18	64MM	6	220

### APPENDIX D.3

### DEMOLITIONS CAPABILITIES AND FORMULAS

## DEMOLITION CARD

## GTA 5-10-9

[VIII | 101] 01A 3-BA MAR PRAT | 011 | 011 | 011 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111

	THE STATE OF THE PARTY		111110
1 10	111	MIOCH	10 19 11
124	I CHPOMISSI C 4	IN SALI BEND TLOCH	2 10 17
	I CHANGESTON C 4	MINE DEMO MOCII	1 10 57
1 20	11 17 19 19	IN I AND IN I DEWO TI DEKI	1 11114
146	CTAILTING CHATGE	International Add To 11(	# 11
a 87	MILITE BY GYAMELS	96.0	1/2 53
111	(mill illighty)	(MI IS	1/7 1 3
1.41	Beldi (ITTORNI INOLIT	[4144]	79.14

district the quarters have like him the winders have

MINIMUM SAIS C	SIANCIS FOR PIPS	SHE IN BUT OPEN W	TH BASE CHARGIS
POUNCE OF FREE PAR	MI COST-HECK HIT TO	POUR-OIL OF THE COURT	SALE OUT MICH IN THE
110 () INC	960	130	1300
- H	961	386	INI
	1004	300	2001
	1104	409	2700
	1781	400	2760
			A C Min Street Law

## WIANIES AND STRANGT THE PETRON IN WHICH PROOF BELLEVILLE SHAPE

to will result in transfer out the fill short above to will result in transfer the fill short above to will result in the fill short above the f

1 (c) Api (c) may 1 very (d) Api (c) api (e) a

#### \_\_\_\_\_\_

#### STEEL CUTTING CHARGES POUNDS THE - 20 + MAS A OF LANSS SECTION IN SQ IN

KALCHAR ARTANONIAR AREAS INCM AND BUOSTANA IGIAL ANDA OF CHAPGES ON THE MEMBERS

IXIMPLI INCHIN	PERCEMENT
	Dr.
west )11 Model	
ï/	10
	PLASTIC
	I NAT CALLA
sir les el	64

LAMORE

OK1 861 TION STEEL A DO . ... Telephone . F

(642.00) INCM [441] + 9 0 1 PURGIT - 7-19 - 10 . ... USE IT SOURCE INT

THE LEAGED BILLING A FAMILIA INCINING UNI

TOR CUTTING HIGH CRASON STEEL I BRID ALLOW TRAIL MADELIA CO DISCOLD

title scenes class - 1" BULL OF INCHE LOS HITS COCCURA ILLI CITIONI 10 M I HAR I HICK USE I 18 OF TAIL

I HICH AND OVER BUT LESS THAN I INCHES USE I IS OF THE

Torontol Mr.	L	POI	INGI	0) (			H 64		DA1		Hell	011	
OF SECTION	Е				<b>m</b> 101	w 0f 1	40100	14 141	INC ATT				_
	-	•	•	•	•		10	11	14	19	11	H	**
- 14	9.1	91		••	**		10	10	11	11	11	10	T
34	91	*1		01	**	11	10	117	10	13	10	110	17
_ l/s	01	00	01	10	10	13	1.0	117	11	**	11	10	1
и	**	01	10	12	10	10	10	110	**	10	11	Ti	17
VI.	49		T	13	11	13	ī.	177	10	**	11	17	ħ
	01	19	18	m	10	111	31	AR	**	77	43	10	7,
	03	11	11	10	12	10	7.0	40	111			111	tr

#### 10 UM 1981.

I WERSOLD POCEAMOURAN SECTIONS OF MUNICIPALITY Wind Itel I'm DWAGT ION LAW SALISM AND CHARGES LOW MICHES TO LIND THEM CHARGE P RIVER USE THE THEN COLCULATED TRANSCO

B III OFMERSTON IS NOT ON TARTE AND WEST TATIONS OF THE PARTY AND THE PARTY OF THE

#### DEMOLITIONS CAPABILITIES



#### CRATERING CHARGES

BIHEIRE II COOR COOLE ALTERNATE ET E AME ZI E 1005.01 Pacific on Little Classics NO TWO SELL HOLLS BRE TO SE HER HOLLS ALWELD DEEL MER MICE CHINCIS MICE IN COLUMN MOD BUT CRANGED IN 111 HOUSE RESULTING CREEKS APPLOADED OLI UND SELECT



HEATT COOR | 144110 Kee OF LOVE! OFFER 11 10 1 17 IN POUNDS OF EXPLORE FIG II OR OTHER Mitualine coarse perin nere

OF 6841 HOLLI



BELL CONTINUE CHARGES TO BE DIVEN FRINCE with 41 II A41 OHS 18 OF LANCOUVE

CHILIYED FALL COSTIONS Own Il yout laths TH HELLS CLOSERS all laigt new (Pt) ME II 14 Dell 1 009 3 10 14 41C 001H1 H1 104 1NOW OF HOLES I REMOSE ADM A n- 1419 . .



#### DEMOLITIONS CAPABILITIES

#### REFACHING CHARGES

- A USING THE TABLE EXTROM OF A 3, OFTENHALE THE APPROPRIATE CONVENEDS TACTOR E VENEZ ENE AREX E LOP DE AGOS A DESERBORIO DAS ANOMAS DE TAN BARE MUNICIPALES. CONTROL I LES CRISEL BASE MANA OF BANK CONTRA LOW RALE
- E MAN BERLI DES ENIMASS DE PROPOS DE TRA MESON LANGUES DE TRA CONVESSION LECTOR

DAMES E GARREST AND STATES THERE ARE ALL THIRTY AND AN ARREST CHARGE STATES STATES CADE OF the WALL WITSOMS SELECTION. CHE CONVENTION INCOME IS SERVED INCOME. EASE OF the wall writeful distance. The convention include the end of the property of the convention includes the convention of the conven

#### SELACHING CHACGE LCCC.

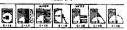
. . . . . . . . I - POUNDE DE ONE PERMITED 9 - CECCEPTED CARRY TO THE C . MI MEML COCIDE ICCOM CARE E . TAMPIGO CACTOR IF FOR EARLE BFLOW

EMPLE DESACH & 1 00 ABRIDADED TARRECHARGE # - # - # C # - # K - BK # -

NAMED OF COLUMN 2 OF THE

----# - 159 PM 120 VM L CHEST # - 424 43 110 UAL C SHERGES He Over I or mound ord TO deadest POST MALLS

varues of c



#### BULLE OF THUME FOR BEBACKING CHARGES FOR SETT BEHALL SE STACE CHARGE IN DUANS OF A STACE SQUARE STACE HAS

to les tesass CON CHRACOS FEM GAYA AN WOL FOR CANADO SANCKERS HE IL IS OF DCR 1810YF

TOE CHEMIST IN LET BE MORE USE CHARGE SPICENSES OF 1 IS REVERBED THISES. THE EMPACHING HARD SHEEKEL ASSESSMENT HOW I UP AND EACH & HE REVINCE!

CON CONCES DE DECENCANT HE CUR-C MARS OR CARP USE I CARCULAS HEISTIDS OF MICHES

## BREACHING CHARGES

### FOR OHM FIRM OF CONSTRUCTION HE ENGINE

		MIIROS		PC  W10			
CONCRETE OF CONCRETE	3023			A-P		Clin	111
	2262		الما	Bald End		1111	REC
1111		fo	UNITS OF	101	-	1111	1111
	3		fix.	16	H	1	-
Pk.			21		н	IN	
	4	29	-		14		
74	4			**	666	24	-
1				100	100		-
TOI,	86	13	122	146	793	~	-
	14	79	147	100	784	-	-
511	00	196	160	210	101	15	-
. !	22	126	140	771	-	7	-
- 11	.74	175	111	340	661	15	- 11
-		100	130	PI PI	100	7	-
	4	226	401		201	N.	-
1	11	PI		-	-	1	-

#### FREE PLOYE IN COM ASSISTANCE GONCRESS THEY FOR STREET TYLES OF MASSISTANCE AND LINE CONVESSION SACTORS.

1410	GABMARY MAJORRY MARIPAR FRALE ORDINARY CONCALD ACCK GUIDT THINGS AND LABOR CONGRESS FOR	MADE COMESTS MADERLY
61	24	

TO USE SPEED IN CALCULATION PROCESSES OF THE DOUBLE ASSESSED.

O 15 STANDAY 155 THAT OF MAINTAIN IN SING DATEST TOWNS AND THOSE THE DOUBLE ASSESSED. THE DOUBLE THE ASSESSED OF MAINTAIN THE SERVICE OF THE ASSESSED OF THE MAINTAIN TOWNS ASSESSED.

| DEFINE DAY YOU WILL FEM I THE COMMENT AND WHAT THE GRACE COMMENT AND INC.

THE CALVERS EMPOYER OLD THE CHARGE CH

#### DEMOLITIONS CAPABILITIES

IONNAN MINITER IS

#### BREACHING CHARGES

	VALUE OF 0	
MA II BOOK		1
otte	FIE VALUE	011
POLIT MASORRI SHILE HRANDAN COOL BREES AND LIKES CONSTRUCTION	111 04 word	12
COOR WARRING COOR STOCK	15 CO LOSS   OVER 1   10 100 IN AN S I T   15 CO 100 IN AN S I I   15 CO 100 IN AN S I I   15 CO LOSS   15	0 m 0 m 0 m 0 m 0 m
STATE CONCRESS STATE COVER MARGASTI	I II ON 1296 OVER I III TO 1296 THAN 1 /1 I II TO 1296 THAN I II I II TO 1296 THAN I II I II ON MORE	111
MINITIALIO DOCUMENTO CON CONCESSIO CASY MILI MOSI CON MINITIALISCONO COMITI		12

### BRIDGE ABUIMENT DESTRUCTION ABUIMENTS ( II OF IEST IN INCOME!

glicatives a sa per secte door stod of action blanch so to characters. Complete in world all quality of the straignages of a littleween recent is and of applicated. If applicated to the section of action of a size of application of action of the section of the section of actions.



#### STATEMENT MOST THEM & ST THICK

CALCINIAL CREATED BY DRACOME FORMAL AND TACK ADMITT REAL TICK IN R. CRIST PACK I FOR THE FORM IN THE CRIST OF REAL THE BASE AND THE FORM IN THE CRIMMAL SHALL PROVIDE THE FORM IN THE FORM

# ADVANCED DEMONITION TECHNIQUES DIAMOND SHEEDS

188111

TOWN BUILD OF CHACKET BARRY OF THE RELEASE OF CHECKMEN PRINCE OF LARGET C4 BLOCK SHOULD BE THE

THISPREM OF ERRADE I THEN HOT HOURED DISCHARGE STEAM CENTURE ER SEER LED OF SWEET AND

BASE - N. CHACUMET ATACE COME AND - J I IN 18 MASE FORCERS SO OF CRINICS + INCH CALF TO E TIEN REGLE BIAN DREY BOX H SE FILL OF 10 F COUNTRY TOTAL CHIEFOR

SAGDLE CHEEGE

INTOK CHARAL

Class County of LANE AT LESS IN CASE OF HALLD CHARGE

(10H OF STREET OF SHOOT) OI CEM of At \$10 or 10 or FIREOUT - 19 | Good of cond DESCRIPTION ASSESSMENT OF COURSE Of CHARGE

\$14 IN 18 18 11 DI CONCRETE TINGS A REF DE ----INTEST EMPERATOR DE CONTR (ABS DIRLS SOIS IMPADEL MANUAL CONTRACTOR STREET TAREDUNY USE DE CUESE COLUMNS NOT SELECT OF .... BEAULD CHARGE ERPLOSY I WE SHOULD BE APPROX COURT TO SERVICE OF THE OF

II Oterel s Dip COMMENT FOR EXACT AFAR BE SCHOOL OF CONCERN

MATERIAL		#1				
	requirecture	-	Panight.	-	PE OF HELD	[I amount
(OMCH II	97	34.	STAMOAND	#	n.	\$7.8E.B.4.82
PALI ROMAN	-	D.	TRANSAND	·F	ta:	STARBARG
PERMANENT	n-	4" 10 E"	45"	Eg-	F 10 15	w
HC4	11	-	4F	F	Ps.	· ir
804)	+	100"	45	7	· r	ar

LUIT SE INUMA SAUDING AND EVEN BY IN 18 ME TO GOOD THERE IT MEETS 12 11 191 MIDS ME CU YD OF BARRY DIAGONA PRE LA CE CHANGE ( A00 MP 104 ) Gille Blues III II or our

#### APPENDIX E

### COMMUNICATIONS

- E.1 COMMUNICATIONS/ELECTRONICS CAPABILITIES AND SPECIFICATIONS
- E.2 NSW/SHIPBOARD COMMUNICATIONS INTEROPERABILITY
- E.3 NSW/E-2C INTEROPERABILITY
- F 4 C3 VAN CAPABILITIES

5-5000

LOS 1.5 REPLACING URC-90

> LOS 10

> LOS 18

LOS N/A

LOS/ 25 SATCOM LOS/

REPLACING PRC-77

N/A

N/A

8 SATCOM

U.S. NAVY SEAL

(LOS) (KY-65) SATCOM

### APPENDIX E.1

## COMMUNICATIONS/FLECTRONICS CADADII ITIES

AND SPECIFICATIONS				
ITEM	FREQ RANGE (MHZ)	RANGE	WT. (LBS)	
AN/PRC-68	30-79	1	3	
AN/PRC-77	30-75 95	25	23	
AN/PRC-90	243-282.8	LOS	2	
		(1	EMERG)	
URC-94	1,5-29 99/	50	N/A	
	30.0-79 99			
AN/PRC-104	2-29 99	10-2000	28	

116-149/

225-399

121 5-225 9

116-150/ 225,400 30,89 975

30-88

225,400

225-400

PARKHILL

225-395 975

VINSON CRYPTO

AN/URC-110

AN/URC-112

AN/PRC-113

AN/PRC-117

PRC-119

ARC-159

AN/PSC-3

LST-5A

K V-57

KY-65

114

ITEM	FREQ RANGE (MHZ)	(NM)	WT.
MX-300	139 6 (VHF)	5	2
MX-300	407 425/,525	5	2
MX-340	156.8	5	2
DMDG	HIGH SPEED C		ATIONS 9
AN/PPN-18	BEACON	N/A	26
AN/PPN-19	BEACON	N/A	17
M-909	NIGHT VISION	GOGGLES N/A	(NEW) 4
PVS-5A	NIGHT VISION	GOGGLES N/A	(OLD)
M-845	NIGHT RIFLE:	SCOPE N/A	4
M-911	POCKET SCOP		2
PAQ-4	IR AIMING LIC		2
GVS-5	IR RANGE FIN	DER	-
AIM-1	IR AIMING LIC	N/A SHT	6
		N/A	1

APPENDIX E 1

### APPENDIX E.2

# NSW/SHIPBOARD COMMUNICATIONS INTEROPERABILITY

ADV	INC	E FORCE CDR		CATE			BG			
	LSE	LPI	LS	LEE J	.cc	LPH	LH	CV	BB	
PLATOON										
PRC-104 (HF)	+	+	+	+	+	+	+	+	+	
								N	ote i	
PRC-113										
(HIGH VHF/UHF)	+	-	+	+	+	+	+	+	+	
PRC-112 (UHF)	+	+	4	+	+	+	+	+	+	
PRC-117 (VHF in										
non-hop Mode)	+	+	+	+	+	+	+	+	+	
								N	Note 2	
PRC-68 (VHF)	+	+	+	+	+	+	+	+	+	
PRC-77 (VHF)	+	+	+	+	+	+	+	+	+	
PRC-90 (UHF)	+	+	+	+	+	+	+	+	+	
PRC-94 (UHF)	+	+	+	+	+	+	+	+	+	
PSC-3 (SATCOM)	٠	٠				٠			٠	
URC-110 (SATCOM)	٠,	٠	٠	٠	٠	٠	٠			
MX300R (HIGH VH	F)-	-	•		-		-	-		
NSWTU										

#### ADVANCE FORCE CDR CATF BG LSD LPD LST FF LCC LPH LHA CV BB

NSWTC									
URT-23 (HF TRAN	S)+	+	+	+	+	+	+	+	
R1051 (HF REC)	+	+	+	+	+	+	+	+	
URC-94 (HF/VHF)	+	+	+	+	+	+	+	+	
VSC-7 (SATCOM)	*	*	٠			٠	٠		
WSC-3 (SATCOM)	•	٠	٠	•	٠	٠	٠	*	

- + Compatible with organic ship radios.
- Not compatible with ship radios
   Compatibility with ship radios depends on MODs of ship equipment.

Note 1 - All DMDG operations (w/any radio) require NSW personnel and equipment to interface shipboard equipment Note 2 - Ship equipment is not compatible with frequency hopping mode.

### APPENDIX E.2.1

#### NSW/SHIPBOARD SATCOM INTEROPERABILITY

- A Existing shipboard assets (WSC-3, OE-82, KY-58) can be utilized. NSW supplies DMDG and TA-970 adapter (WILLY BOX)
  - 1. WSC-3 must be solely dedicated to NSW forces.
- If no TA-978/TA-790 available, WILLY BOX would have to be adapted to plug directly into KY-58. This limits remoting capability
- B. Utilizing NSW gear (PSC-3, KY-57, DMDG)
- 1 Deck mounting of DMC-120 portable SATCOM antenna is required. This limits area of PSC-3 due to length of antenna cable
- 2 The possibility exists to tap off existing shipboard OE-82 SATCOM antenna. Some ships are so equipped. In other cases, NSW forces would have to provide hardware.
- An additional option would be to strap DMC-120 antenna to OE-82 antenna for tracking purposes
  - 4 In cases 2 and 3, some satellite must be used

#### APPENDIX E.3

### **NSW/E-2C INTEROPERABILITY**

- 1 Cable required for DMDG to E-2C.
- 2 UHF LOS (PRC-113), DMDG, KY-57 operational on testing.
- 3. HF (PRC-104), DMDG operational
- Aircraft altitude will effect range of communication (25,000 ft. at 300 miles for UHF).

#### APPENDIX F 4

### C3 VAN CAPABILITIES

C-3 VAN OTY CIRCLITY

CIRCUIT CAPABILITY

THE TTY/VOICE, AM/USB/LSB/CW/ LANDLINE.

2 HF/VHF VOICE/DATA AM/LISB/LSB/CW/ FM-VHF

\*3(2) LIHE-EM VOICE/DATA, LOS/SATCOM AM/FM, VOICE/DATA, FSK 1 ITHE

LOS/SATCOM 4 VINSON SECURE VOICE (KY-SR) SATCOM

UHE VHE 2 PARKHILL VOICE (KY-75) DATA, HF.

LANDLINE 2 NESTOR SECURE VOICE (KY-8) UHF, VHF

FLTSEVOCOM (STANDARD FLEET SECURE VOICE NET \*I(0) DAMA DEMAND ASSIGNED MULTIPLE

ACCESS (ALLOWS FIVE CIRCUITS TO TIME-SHARE ONE SATELLITE CHANNELL

\*1(0) GXC-7 DIGITAL FACSIMILE CIRCUIT.

SECURE/NON-SECURE 2 KG-84 DIGITAL DATA ENCRYPTION

DEVICES (TTY/DATA) ENABLES HIGH-SPEED INFORMATION TRANSFER

2 DMDG DIGITAL MESSAGE DEVICE GROUP Numbers in parentheses indicate current circuit capability Full circuit canability will be added in the near future. All wiring is

installed in the van(s), with the exception of DAMA, but the equipment uself is not yet available. 120

U.S. NAVY SEAL

### APPENDIX F

## REFERENCES

- F.1 BIBLIOGRAPHY FOR NSW OPERATIONS PLANNING
- F.2 GLOSSARY OF NAVAL SPECIAL WARFARE TERMS

#### APPENDIX F.1

#### BIBLIOGRAPHY FOR NSW OPERATIONS PLANNING

#### F.1.1 AMPHIBIOUS OPERATIONS

Naval Special Warfare in Amphibious Operations

Joint Surf Manual

NWP 22-4B

COMNAVSURF-PAC/LANT Inst 3840 I (Series)

# OF OPERATIONS Desert Operations FM 90-3

Mountain Operations

ENVIRONMENTAL AREAS

Northern Operations FM 31-71

Basic Cold Weather Operations

FM 31-72

F1.2

	Nautical Chart Symbols	H O Chart
	and Abbreviations	No 1
	Joint Surf Manual	COMNAVSURE
		PAC/LANT Inst
		3840 1 (Series)
	Cartographer's Manual	CNSWG-I
		Inst 3820 1
F.1.4	DEMOLITIONS	
	DEMOLITIONS	
	Demolitions Materials	NAVSEA OP 221
	Explosives and Demolitions	FM 5-25
	Special Forces Explosives	Army Correspon-
		dence Course
		Sub-Course 706
F.1.6	DIVING	
	Navy Daying Manual	Vol 1 Air Diving
		Vol 11 Mixed Gas Diving
	Draeger LAR V	Pamphlet
	Closed-Circuit 02 Diving	NEDU Rpt 7-85
	U/W Purging Procedures for Draeger	NEDU Rpt 8-86

F.1.3 CARTOGRAPHY

#### BIBLIOGRAPHY FOR NSW OPERATIONS PLANNING

FM 27-10

FM 21,26

ST 21-75-2

TC 23.14

FM 31-5

FM 21-76

## F18

E.1.7

F.1.8

LAND WARFARE The Law of Land Warfare

Map Reading

Ranser Handbook

Sniper Training and Employment Special Forces Trainer's Guide

Survival

PHOTOGRAPHY

Intelligence Photography

SOVIET/FASTERN BLOC FORCES

The Soviet Army Troops, Onc., and Equipment

The Soviet Army, Operations and Taction

Understanding Soviet Naval Developments

Visual Aircraft Recognition

124

FITCPAC Course 1.243.0974

EM 100-2-3

FM 100-2-1

NAVSO P-356

FM 44-30

Submarine SPECOPS Manual -Unconventional Warfare

NWP 79-0-4

DDS TACMEMO

NAVSPECWAD. CEN STG TACMEMO

F1 10 TARGETING

F19

SPECOPS Target Vulnerability and 61JTCG/ME-83 Wesponeering Manual

WEAPONS F.1.11

M-16 A1 Rifle

M.14 Rifle

M-60 Machine Gun

12 Gauge Shotgun 60mm Lightweight Mortar

40mm M-203 Grenade Launcher Pixtols and Revolvers

FM 23.0

FM 23-8

FM 23-67

TM 9-1005-303.14

TM 9-1010-223-10-HR

FM 23-31

FM 23,35

## APPENDIX F.2

# GLOSSARY OF NAVAL SPECIAL WARFARE TERMS

Antiterrorsm. Defensive measures used to reduce the vulnerability of individuals or property to terrorism. Also called AT (approved defination by JCS Pub 1)

Beach Landing Site (BLS): A geographical location selected for seross the beach infiltration/exhibitation/resupply operations

Beacon Bombing. Bombing operations using Radar Beacon Forward Air Controller (RABFAC) AN/PPN-18 and AN/PPN-19 transponders to aid aircraft in the conduct of close air support missions. Often used in conjunction with ground laser devices to deliver precision guided auxiliaries.

Bland Transmission: Transmission which is without expectation of a receipt or riply.

Civil Affairs. Those activities conducted during peace and wer that facilitate relationships between US military forces, evul authorities, and people of the nation in which the US forces are operating

Clandestine Operations. Operations to accomplish intelligence, counterunalligence, and other annular activities sponsored or conducted by governmental agencies in such a way as to assure concealment of identity of sponsor.

Combat Control Team. A team of Air Force personnel organized, trained and equipped to locate, identify, and mark drop/landing sones, provide intuited weather observations, install and operation awagational aids and air traffic control communications necessary to guide aircraft to drop/landing zones, and to control air traffic at literat zones.

Combat Search and Rescue Combat search and rescue (CSAR) as a specialized task performed by rescue forces to affect the expoditious recovery of distressed personnel from a hostile environment during wartime or contingency operations

Combined Operation. An operation conducted by forces of two or more allied nations acting together for the accomplishment of a single mission.

Command and Control. The exercise of authority, and direction by a properly designated commander over assigned forces in the accomplishment of the mussion. Command and control functions are performed through an arrangement of personnel, equipment, for naturalization, fischilates, and procedures employed by a commander in planning, directing, coordinating, and controlling forces and operations in the accomplishment of the mission (LSS Pub 1).

Compact Laser Designator (CLID): The compact laser designator is a staget making device with a rangefinder. The man-portable target marker will be used by a ground operator for target handoff to laser guided ordinance and lasers tracker equipped arrieft. The CLD is a Class IV needyminimy lettrium aluminimum garmet. (RD YAG) laser II weight 16 lbs. and lase a range from 50-1,000 meters. The primary power source is a lithium battery, although the correlational control of the control

Communications. A method or means of conveying information of any kind from one person or place to another (JCS Pub 1).

Compartmentation, Establishment and management of an intelligence organization so the information about the personnel, organization, or extributes of one component is made a whileble to any other component only to the extent required for the performance of assigned duties

Compromise. The known or suspected exposure of clandestine personnel, installations or other assets, or of classified information or meterial, to an unauthorized person.

Counter-Guerrilla Warfare, Operations and activities conducted by armed forces, paramilitary forces, or non-military egencies against guerrillas.

Counternaurgency: Those military, paramilitary, political, economic, psychological and civic actions taken by a government to defeat insurgency (JCS Pub 1).

Counter-intelligence. Those activates which are concerned with identifying and counterecting the threat to security posed by hostile intelligence services or organizations or by individuals engaged in exponence, sebotage, or subvertion (ICS by h.)

Counterterrorsam. Offensive measures taken to prevent, deter, and respond to terrorism. Also called CT (Approved definition by JCS Pub 1)

Pub 1)

Cover: Protective guise used by a person, organization or installetion to prevent identification with clandesting activates.

Covert Operations: Operations which are so planned and executed as to conceal the identity of, or permit plausible denial by the aponsor under the provisions of Executive Order 12036. They differ from clandestine operations in that emphasis is placed on concealment of identity of the sponsor rather than no concealment.

# of the operation

Deception. Those measures designated to mislead the enemy by manipulation, distortion, or falsification of evidence to induce him to react in a manner projudicial to his interests

Dental Operation. An operation designed to prevent or hinder enemy occupation of, or benefit from, areas or objects having tactical or strategic value.

Direct.Action Mission (DAM): A specified military or paramittary operation involving a commando style raid into a hostile or denied area DAM's are usually conducted coverily or elandestinely by SPECOPS forces in order to roscue, strike, reconnotier, or destroy a target behind enemy lines.

<u>Diversion</u>. The act of drawing the ettention and forces of an enemy from the point of the principal operation; this can be an attack, alarm, or faint which diverts attention.

<u>Drop Altitude</u>; Altitude of an aureraft in feet above the ground at the time of a parachute drop

Drop Zone (DZ): A specified area upon which airborne troops, equipment, or supplies are air dropped

Electronic Intelligence (FELNT): The intelligence information product resulting from the collection and processing, for subsequent intelligence purposes, of foreign noncommunications electromagnetic relatations emanating from other than atomic detonations or radioactive sources.

Enciples. To convert plain text into unintelligible form by means of a cipher system.

of a cipher system.

Encode: 1 That section of a code book in which the plain text equivalents of the code groups are in alphabetical, numerical, or other systems tier order 2 To convert plain text into numerical, or

Encrypt. To convert plain text into unintelligible form by means of a crypto system

Espionage. Actions directed toward the acquisition of information through clandestine operations

Exader: Any person who has become isolated in hostile or unfriendly territory who eludes capture

Exasion and Escape (E&E). The procedures and operations whereby military personnel and other selected individuals are enabled to emerge from an enemy-held or hostile area to areas under from the control.

Evasion and Escape Net: The organization within enemy hold or hostila areas that operates to receive, move, and excitirate military personnel or selected individuals to friendly control

Exasion and Escape Route. A course of travel, preplanned or not, which an escapee or exader uses in his attempt to depart anemy territory in order to return to friendly lines.

Forward Operating Bases (FOB). In unconventional warfare, a base usually located in firendly termory or affort which is established to extend command and control or communications or to provide support for training and textural operations. Feelitties are usually temporary and may include an artificide or an unsupport distription of the providence of th

Foreign Internal Defense, Participation by civilian and military agencies of a government in any of the action programs taken by another government to free and protect its society from subversion, lawlessness, and insurgency (ICS Pub 1).

Guernila Warface, Military and paramilitary operations conducted in enems held or bostile territory by irregular, predominantly indigenous forces (ICS Pub I).

Harassment, An incident in which the primary objective is to

disrupt the activities of a unit, installation, or ship rather than to inflict serious casualties or demage.

Human intelligence (Humant): A category of intelligence derived from information collected and provided by human sources

Insurgence. An organized movement asked at the overthrow of a constituted government through use of subversion and armed conflict (ICS Pub I).

Infiltration 1. The movement through or into an area or territory.

occupied by either friendly or enemy troops or organization. The movement is made, either by small groups or by individuals, at extended or irregular steer als. When used in connection with the context is a chooled. It is mittelligence ussige, placing an agent or other person in a target area in hostile larmorp. Usually involves crossing a frontier or other guarded line Methods of infiltration are: black (elandestines); grey, (through legal crossing promibits under flate documentations), white (legal.)

Interdiction. Preventing or hindering by any means, enemy use of an area or route

Intelligence. The product from the collection, processing, integration, analysis, evaluation and interpretation of available information concerning foreign countries or areas (JCS Pub I)

Logistics: The science of planning and carrying out the movement and maintenance of forces. It is corporates supply and services, maintenance, transportation, asimulation, construction, and medical services (modified JCS Pub 1).

### GLOSSARY OF NAVAL SPECIAL WARFARE TERMS

Lox-Intensity, Conflict. A limited politice-military struggle to eacher political, social economic or psychological objectives it is often postracted and ranges from diplomatic, economic, and psychological pressures through terrorum and instrugery. Lox-vir-tensity conflict is generally conflicted to a geographic area and in office characterized by construints on the weapons, tacted and level of violence. Also called LIC (approved definition for ICS Pub. 1)

Marker, A visual or electronic and used to mark a designated point

Marking Panel, A sheet of maternal displayed by ground troops for visual signaling to friendly asseraft.

Measuring. A system of receiving radio beacon signals and re-

broadcasting them on the same frequency to confuse mayigation.

The meaconing stations cause inaccurate bearings to be obtained by aircraft or ground stations

Militar. Assistance Advisors, Group. A joint service group, normally under the military command of a commander of a unified command and representing the Secretary of Defense, which primarily administrars the US military assistance planning and programming in the fost country. Also called MAAG (ICS Pub 1)

Millian. Chic Action: The use of preposdersally indigenout military forces on projects seeful to the bead population at all test in much fished as deducation, training, public works, agriculture, transsuch fields as education, training, public works, agriculture, transportation, communications health, assistation, and other contribuing to economic and social development, which would also serve to improve the standing of the military forces with the population. (U.S forces mp. at times advise or engage in military civic actions in oversoms served, U.S.P abs 1).

Net. Chain. Cell System: Patterns of chandestine organization, especially for operational purposes Nets is the broadest of the three; it is usually involves (a) a succession of echolons and (b) such functional specialists as may be required to accomplish its mission When it consists largely or entirely of non-staff employees, it may

be called an agent set. Chain focuses attention upon the first of these elements, it is commonly defined as a series of agent and informatists who receive matterious from and pass informations to a principal agent by means of causions and coursers. Callastical and informatists who receive matterious from and coursers. Callastical feature is the expression of the control of the c

Not Authentication. An authentication procedure by which a not control station authenticates itself and all other stations in the now system systematically establishing their validity.

Overt Operation. The collection of intelligence openly, within concealment Operations which are planned and executed without attempting to conceal the operation or identity of the sponsoring power.

Paramilitary Forces. Forces or groups which are distinct from the regular armed forces of any country, but resembling them in organization, equipment, trainage, or mission (JCS Pub.)

Peacetime Contingency Operations: Politically sensitive military operations normally characterized by the short term rapid projection or employment of forces in conditions short of conventional war (e.g., strike, raid, rescue, recovery, demonstration, show of force, unconventional war fare and intelligence operations) (TRA-DOC Pum 23-444)

Propaganda: Any form of communication in support of national objectives designed to influence the opinions, emotions, attitudes, or behavior of any group in order to benefit the sponsor, either directly or indirectly (ICS Pub I).

Radar Beacon. A receiver-transmitter combination which sends out a coded signal when triggered by the proper type of pulse enabling determination of range and bearing information by the interrogating station or aircraft.

Raid. An operation, usually small-scale, involving a swift penetration of hostile territory to secure information, confuse the enemy, or destroy his installations. It ends with a planned withdrawal upon complotion of the assigned mission.

Recovery Site. An area within or outside a SAFE (E&E) area from which an evader/escapee can be evacuated. The area is selected for its accessibility by ground, sea, or airborne recovery personnel.

Sabotage, An act with an intent to injure, interfere with, or obstruct the national defonse of a country by willfully injuring or dostroying, or attempting to injure or destroy, an attornal defense or war material, premises, or utilities to include human and natural resources.

SAFE Area. A designated area in hostile territory which offers the evader or oscapee a reasonable chance of avoiding capture and of survivino until ho can be evacuated.

Search and Rescue. The use of aircraft, surface craft, submarines, specialized rescue teams and equipment to search for and rescue nersonnel in distress on land or at sea

<u>Sensitive</u>: Requiring special protection from disclosure which could cause embarassment, compromise, or threat to the security of the sponsoring power. May be applied to an agency, installation, person, position, document, material, or activity

Sensitive Area, Specific location which has become a center of activity of intelligence interest

Signal Panel, Strip of cloth used in sending code signals between ground and aircraft in flight

Special Activities. Means activities conducted abroad in support of national foreign policy cajectives which are designed to further official United States programs and policies abroad and which are planned and executed so that the role of the United States government is not apparent or acknowledged publicly, and functions in support of such activities, but not including diplomatic activity or the collection and production of intelligence or related support functions

Special (or Project) Equipment, Equipment not authorized in standard equipment publications but determined as essential in connection with a contemplated operation, function, or musion

Special Forces Operational Base (SFOB): In unconventional warfare, a provisional organization which is established within a friendly area by elements of a Special Forces group to provide command, administration, training, logistical support, and intelligence for operational Special Forces detachments and such other forces as may be placed under this operational control (Note CINCPAC adds "The SFOB also provides logistical support for indigenous UW forces sponsored by those detachments. The Commander SFOB will normally be the Army component commander of the JUWTF if only one SFOB is utilized ")

Special Operations, Operations conducted by specially trained, equipped and organized DOD forces against strategic or factical targets in pursuit of national military, political, economic, or psychological objectives. These operations may be conducted during periods of peace or hostalities. They may support conventional operations or they may be prosecuted independently when the use of conventional forces as either managements or infeasible

Strategic Intelligence: Intelligence that is required for the forma-

tion of policy and military plans at national and international levels PATROL LEADER'S HANDBOOK

#### GLOSSARY OF NAVAL SPECIAL WARFARE TERMS

Strategic intelligence and tactical intelligence differ primarily in level of application but may also vary in terms of scope and detail (JCS Pub I)

Tactical Intelligence, intelligence which is required for the planning and conduct of tactical operations. Tactical intelligence and strategic intelligence differ primarily in level of application but may also vary in terms of some and detail (ICS Ptb 1).

Target, 1 A geographical area, complex, or installation planned for capture or destruction by military forces, 2 in intelligence usage, a country, area, installation, agency, or person against which intelligence operations are directed.

Target Acquisition. The detection, identification, and location of a target in sufficient detail to permit the effective employment of weapons.

Target Folders. The folders containing target intelligence and related materials prepared for planning and executing action against a specific target.

<u>Terrorism</u>. The unlawful use or threatened use of force or violence against individuals or property to coerce or aximidate governments or societies, often to achieve political, religious, or ideological objectives

Theater: The geographical area outside continental United States for which a commander of a unified or specified command has been assumed military responsibility.

Transponder. A transmitter-receiver capable of accepting the electronic challenge of an interrogator and automatically transmitting

an appropriate reply

<u>Unconventional Warfare</u>. A broad spectrum of military and paramilitary operations conducted in enemy, enemy held, enemy controlled, or politically sensitive territory. Unconventional warfare includes, but a not himsted to, the interestant fields of guerralia.

#### APPENDIX F 2

warfare, evasion and escape, subversion, subotage, and other opcrations of a low visibility, cover, or claudestine nature. These intervelled superiest of unconventional warfare may be prosecuted singly or collectively by predominantly indigenous personnel, usually supported and directed in various degrees by (an) external source(s) during all conditions of war or peace.